



*East Bay Municipal Utility District
Oakland, California*

Biennial Report and Recommendation of The General Manager Fiscal Years 2018 & 2019

*Revisions to the Water and
Wastewater System
Schedule of Rates and
Charges, Capacity Charges,
and Other Fees*

FY2018 and FY2019

**Biennial Report and
Recommendation of the
General Manager**

Revisions to the Water and Wastewater System

***Schedule of Rates and Charges, Capacity Charges,
and Other Fees***

*Presented to the Board of Directors
by Alexander R. Coate, General Manager on
June 13, 2017*

East Bay Municipal Utility District

East Bay Municipal Utility District

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EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: June 8, 2017

MEMO TO: Board of Directors

FROM: Alexander R. Coate, General Manager *ARC*

SUBJECT: FY18 & FY19 Biennial Report and Recommendation of the General Manager for Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges and Other Fees

The District creates a biennial report with recommendations on rates and charges, both those subject to California Constitution article XIII D, section 6 (commonly referred to as Proposition 218) such as water and wastewater service charges, and those not subject to Proposition 218 such as capacity fees and charges for special services that are subject to California Constitution article XIII C, section 1(e) (commonly referred to as Proposition 26). Water and wastewater service charges subject to Proposition 218 were presented to the Board along with the proposed Fiscal Year 2018 and 2019 (FY18 and FY19) operating and capital budgets at the April 11, 2017 budget and rates workshop. The Board also received the Proposition 218 notice announcing the hearing date for rates and charges subject to Proposition 218. The attached report summarizes all proposed changes to rates and charges subject to Proposition 218 and other fees and charges not subject to Proposition 218. The Proposition 218 public hearing to consider increases in the District's water service rates and charges has been rescheduled to be held on July 11, 2017. The public hearing was originally scheduled for June 13, 2017, but was rescheduled to this later date to address an issue with the District's mailing of the Proposition 218 notices. Specifically, the District became aware of a data processing error that resulted in a number of property owners and/or account holders within its service area not receiving the Proposition 218 notice. To ensure all property owners and account holders impacted by the proposed rate increases have adequate time to consider the proposed changes and participate in the rate process, the District reissued the Proposition 218 notices to all property owners/account holders in its service area, and rescheduled the public hearing for Tuesday, July 11, 2017.

The proposed charges are designed to recover costs identified in the proposed FY18 and FY19 operating and capital budgets and to meet Board policy goals. In preparation for the FY18 and FY19 budget and rates, a series of three Board workshops were held in 2017 to develop and discuss the details of the proposed budget and rates including staffing, capital projects, water sales projections and rate sensitivities. In addition, a Board workshop was held in December 2016 that focused on financial planning and reviewed the District's long-term financial stability principles that were developed during FY15. The proposed water and wastewater charges were developed using an update for FY18 and FY19 of the District's cost of service (COS) study to ensure that the charges are compliant with Proposition 218. The COS study for the water and wastewater systems ensures that charges are appropriately and equitably established consistent with California law. The proposed FY18 and FY19 rates incorporate the results of the COS study as well as the increased revenue required to address proposed FY18 and FY19 expenditures.

As part of long-term financial stability efforts, the District developed a staged system of drought surcharges to recover water shortage related costs, which was implemented during the Stage 4 Drought in FY16. Under this staged system of drought surcharges, the drought surcharge rises as the severity of the water shortage increases (i.e., Stage 1 – 0%; Stage 2 – up to 8%; Stage 3 – up to 20%; Stage 4 – up to 25% on the Water Flow Charge). The District does not anticipate a water shortage in FY18 or FY19 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the drought surcharge percentages that were developed in the 2015 COS study and adopted and implemented for FY16 will remain in effect as a contingency plan in the unanticipated event of a water shortage. If a water shortage occurs, the District will update the drought related costs and develop and adopt drought surcharges based on the updated COS study. Any drought surcharges that are imposed will be consistent with the FY16 staged system of drought surcharges and will not exceed the drought surcharge percentages from FY16.

Recommended changes to Water System rates and charges are:

Water Rates and Charges:

- Increase water charges (service, flow, elevation, and private fire service) 9.25 percent overall for FY18 and 9.0 percent overall for FY19. These increases support the proposed FY18 and FY19 operating and capital expenses.
- Maintain the staged system of drought surcharges developed in the Districts' COS study for FY18 and FY19 as a contingency plan in the unanticipated event of a water shortage. The drought surcharge percentage is imposed on the potable Water Flow Charge when the Board declares a water shortage emergency.

Other Water Fees and Charges:

- Implement increases and changes to the System Capacity Charge (SCC), Standard Participation Charge (SPC), and Water Demand Mitigation Fees to reflect changes in District costs.
- Implement proposed changes to Water System Schedule B – Account Establishment Charge, Schedule C – Charges for Special Services and Schedule M – Water Service Estimate Application Fees. These changes increase the individual charges in the schedules to reflect current District costs.
- Implement the proposed changes to the Real Property Use Application Fees, Public Records Act Fee Schedule and District Publications Fees, and Recreation Use Fees to reflect current District costs.

- Modify Water Service Regulations Sections 1, 2, 3, 17, 26 and 31 to update and clarify District service regulations.

The proposed increases for FY18 and FY19 are higher than projections made in FY15, when the FY16 and FY17 biennial budget was adopted. At that time, it was projected that water service charges in FY18 and FY19 would need to increase by 5.0 percent each year. The proposed water service charges are higher than originally projected two years ago due to significantly reduced water sales. The multi-year drought has resulted in both temporary (e.g., limited irrigation) and permanent changes (e.g., replacement of lawns with hardscape and installation of water efficient appliances and fixtures) in water demand by our customers. For example, the average residential water user (the majority of water users within the District are residential customers) now consumes only up to 8 hundred cubic feet (CCF) per month (about 200 gallons per day) as compared to 10 CCF (about 250 gallons per day) in 2013. The budget draws upon Rate Stabilization Funds to lessen the rate impact on our customers as the District recovers from the financial impacts of the multi-year drought.

District revenues are in large part dependent upon water usage which is projected to be significantly lower in FY18 and FY19 compared to prior projections. The proposed charges are based on the assumption that water consumption will be 137 million gallons per day (MGD) in FY18 and 141 MGD in FY19. This is more than 10 percent lower than the water consumption that had been projected for FY18 and FY19 at the time the FY16 and FY17 biennial budget was adopted. Despite the fact that the recent drought has ended and water use restrictions have been lifted, it is projected that customers will maintain many of their conservation habits.

The overall increases of 9.25 percent in FY18 and 9.0 percent in FY19 will raise the monthly bill for the average single family residential customer to \$51.49 in FY18, a \$4.34 (9.2 percent) increase, and to \$56.12 in FY19, a \$4.63 (9.0 percent) increase. However, the overall impact to individual customers will vary depending on their actual water consumption.

Recommended changes to Wastewater System rates and charges are:

Wastewater Treatment Charges and Wet Weather Facilities Charge:

- Increase Wastewater Treatment Charges (service, strength, flow) and Wet Weather Facilities Charge 5.0 percent overall for FY18 and 5.0 percent overall for FY19. These increases support the proposed FY18 and FY19 operating and capital expenses.

Other Wastewater Fees and Charges:

- Increase the Wastewater Capacity Fee to reflect changes in District costs and to implement the fifth year of the five-year phase-in of the updated fee approved by the Board in 2013.

- Increase the Wastewater Discharge Permit and Estimation Permit fees for FY18 and FY19 and revise the Limited Term Discharge Permit to reflect higher permit costs and lower treatment costs for groundwater remediation.
- Increase the Monitoring Fee for FY18 and FY19 to reflect higher permit costs.
- Increase the Private Sewer Lateral Compliance Fee by \$25 and the Time Extension Certificate by \$7 to recover District costs.
- For the Resource Recovery rates, add an additional rate sub-category for the material type “brine” and increase the rate in FY19 to reflect the nature of the material type.

The proposed increases are consistent with projections made in FY15, when the FY16 and FY17 biennial budget was adopted. At that time, it was projected that wastewater service charges in FY18 and FY19 would need to increase by 5.0 percent and 5.0 percent respectively. The proposed increases are consistent with those projections. The District’s ability to remain true to its projections is notable given that the FY18 and FY19 budget is based on slightly lower projections of treatment flows due to reduced water use. District wastewater revenues are in part dependent upon billed potable water usage and assumptions regarding the amount of water returned to the sewer as wastewater. The proposed charges are based on the assumption that wastewater revenue will be about 3 percent lower than had been projected when the FY16 and FY17 biennial budget was adopted. The wastewater service charge increases for FY18 and FY19 are consistent with the levels projected for these years largely as a result of operating cost savings and debt savings from using more cash funding and less debt financing of capital expenditures.

The 5.0 percent overall increase for FY18 for wastewater results in an increase of \$0.96 per month from \$19.93 to \$20.89 (4.8 percent) on the monthly wastewater charge collected on the water bill for the average residential customer. For FY19, the bill will increase \$1.06 per month from \$20.89 to \$21.95 (5.1 percent). However, the overall impact to individual customers will vary depending on their actual water consumption. The monthly charges include the San Francisco Bay Pollution Prevention Program monthly fee, which remains at \$0.20 per month for FY18 and FY19 for residential customers. In addition to the wastewater charges collected on the water bill, wastewater customers also pay a Wet Weather Facilities Charge collected on the property tax bill depending on lot size. The annual Wet Weather Facilities Charge is proposed to increase 5.0 percent each year to \$98.80 in FY18 and to \$103.74 in FY19 for the lot size for the typical residential customer.

The recommendations in this memo include water and wastewater service charges subject to Proposition 218, including the proposed drought surcharges. In compliance with Proposition 218, which established specific rules for implementing new or adjusting existing rates, the District will hold a public hearing on July 11, 2017 to consider the adoption of the charges. The Proposition 218 notice for the July 11, 2017 public hearing was sent by mail to the record owners of parcels upon which the proposed charges will be imposed and tenants directly responsible for

the payment of the proposed charges (i.e., “customers” who are not property owners,) at least 45 days prior to the scheduled public hearing. Any record owner and any tenant may submit a written protest to the proposed increases; however, only one written protest will be counted per identified parcel. Any written protest must: (1) state the specific charge increase (water and/or wastewater) for which the protest is being submitted in opposition; (2) provide the location of the identified parcel by customer account number, assessor’s parcel number or street address; and (3) include the name and signature of the property owner or tenant submitting the protest. If a property owner or tenant is protesting one or more increases, the property owner or tenant should identify which service charge increase or increases he or she is protesting. Written protests against the proposed increases may be personally delivered to the District, submitted at the hearing, or mailed to the District. Protests by fax, email, or other electronic means will not be accepted as formal written protests. To be tabulated any written notice must be received by the District prior to the close of the hearing. If written protests against either or both of the proposed service charge increases as outlined above are not presented by a majority of the property owners or tenants directly responsible for the payment of the water and/or wastewater service fees and charges of the identified parcels upon which they are proposed, the Board will be authorized to impose the respective increases.

The Proposition 218 notice for the July 11, 2017 public hearing on the recommended increases was mailed to all parcel owners and customers by May 27, 2017 in compliance with Proposition 218 requirements.

The proposed water and wastewater charges are recommended to be effective on bills issued on or after July 12, 2017 for FY18 and on or after July 1, 2018 for FY19. Changes to the Public Records Act Fees will also be effective on July 12, 2017. Changes to SCC, SPC, Water Demand Mitigation Fees, and Wastewater Capacity Fees for FY18 are proposed to be effective on August 14, 2017. Changes to recreation fees are proposed to be effective January 1, 2018 for the 2018 increases and January 1, 2019 for the 2019 increases to coincide with the recreation season.

ARC:SDS:RL:rl

**1. Water System Rates,
Charges and Fees**

Chapter 1 – Water System Rates, Charges and Fees

INTRODUCTION

The District updates the water system's rates and charges biennially in conjunction with the development of its budget. The charges are designed to recover costs identified in the proposed operating and capital budgets and to meet Board policy goals. The District's water service charges include a Water Service Charge, which is a fixed charge to the ratepayer that does not change regardless of water use, and a Water Flow Charge, which is a variable charge that rises and falls depending upon the level of water used (also known as a consumption or volumetric charge). In addition to the Water Service Charge and the Water Flow Charge, the District water service charges levied under specified circumstances include a water Elevation Surcharge, a Private Fire Service Charge, and Nonpotable/Recycled water charges, as well as a system of Drought Surcharges. The District completed a cost of service (COS) study in FY15 to ensure that all of the District's water service rates and charges are appropriately and equitably established consistent with California law. The proposed overall increase to the water charges is 9.25 percent for FY18 and 9.0 percent for FY19; however, the overall impact to individual customers will vary depending on their actual water consumption. Illustrations of the varying impacts are presented below for FY18 and FY19.

Details of the cost of service analysis and the FY18 and FY19 calculations are contained in the District's April 9, 2015 COS study and the updated COS analysis for Fiscal Year 2018 and 2019, respectively (see Appendix A). They are also addressed in the General Manager's April 6, 2017 memorandum to the Board which discusses the proposed FY18 and FY19 service charges that are subject to California Constitution, article XIII D, section 6.

The District does not anticipate a water shortage in FY18 or FY19 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the drought surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will remain in effect as a contingency plan in the unanticipated event of a water shortage. If a water shortage occurs, the District will update its drought related costs and develop and adopt drought surcharges based on the updated COS study. Any drought surcharges that are imposed will be consistent with the FY16 staged system of drought surcharges and will not exceed the drought surcharge percentages from FY16.

The proposed water charges will be effective on bills issued on or after July 12, 2017 for FY18 and on or after July 1, 2018 for FY19.

RECOMMENDATIONS

The recommendations in this section cover the Water System water service rates and charges, including the Water Service Charge, Water Flow Charge (consumption), Drought Surcharges, Water Elevation Surcharge, Private Fire Service Charge and charges related to the installation of water and private fire service and other ancillary charges.

Recommended changes to the Water System water service rates and charges are:

Water Service Rates and Charges and Drought Surcharges:

- Increase water charges (service, flow, elevation and private fire service charges) 9.25 percent overall for FY18 and 9.0 percent overall for FY19. These increases support the projected FY18 and FY19 operating and capital expenses.
- Adopt the FY18 and FY19 water service charges as shown in Water System Schedule A – Rates Schedule for Water Service (see Chapter 5).
- Adopt the schedule of Drought Surcharges as shown in Water System Schedule L – Drought Surcharge Rate Schedule for Water Service (see Chapter 5) using the drought surcharge percentages developed in the District's COS study. The drought surcharge percentage is imposed on the potable Water Flow Charge when the Board declares a water shortage emergency or a water shortage, or the State mandates reduced water use.

Other Water Fees and Charges:

- Implement proposed changes to Water System Schedule B – Account Establishment Charge, Schedule C – Charges for Special Services and Schedule M – Water Service Estimate Application Fees. The changes increase each charge in these schedules to reflect current costs.
- Modify Water Service Regulations Sections 1, 2, 3, 17, 26 and 31 to update and clarify District service regulations.
- Update the Real Property Use Application Fees, Recreation Use Fees and Public Records Act Fee Schedules for specific fee changes.

DISCUSSION

Water Service Rates and Charges

Increase overall Water System water service rates and charges by 9.25 percent in FY18 and 9.0 percent in FY19.

The purpose of Water System water service charges is to recover costs in the District's operating and capital budgets and to meet the Board's policy goals. The proposed increases address the District's needs as presented in its proposed biennial budget for FY18 and FY19. Details of the proposed increases to the individual components of the water service charges are shown below under **Water System Cost of Service and FY18 and FY19 Proposed Charges**. Details of the FY18 and FY19 budget objectives, operating budget, capital expenses, and debt expenses are available in the FY18 and FY19 Proposed Biennial Budget and Capital Project Summaries.

The proposed water service rates and charges increases for FY18 and FY19 are higher than projections made in FY15, when the FY16 and FY17 biennial budget was adopted. At that time, it

was projected that water service charges in FY18 and FY19 would need to increase by 5.0 percent each year. The proposed FY18 and FY19 water charges, and resulting customer bills, are higher than originally projected two years ago due to significantly reduced water sales. The multi-year drought has resulted in both temporary and permanent changes in water demand by our customers. For example, the average residential water user (the majority of water users within the District are residential customers) now consumes only up to 8 hundred cubic feet (CCF) per month (about 200 gallons per day) as compared to 10 CCF in 2013 (about 250 gallons per day). The proposed budget draws upon Rate Stabilization Funds to lessen the rate impact on our customers as the District recovers from the financial impacts of the multi-year drought.

District revenues are in large part dependent upon water usage which is projected to be significantly lower in FY18 and FY19 compared to prior projections. The proposed charges are based on the assumption that water consumption will be 137 million gallons per day (MGD) in FY18 and 141 MGD in FY19. This is more than 10 percent lower than the water consumption that had been projected for FY18 and FY19 when the FY16 and FY17 biennial budget was adopted. Despite the fact that the recent drought has ended and water use restrictions have been lifted, it is projected that customers will maintain many of their conservation habits. The projected water sales for FY17 is 133 MGD, which is a slight increase from the 128 MGD experienced during FY16 when the District was in a Stage 4 drought emergency.

Revenue from water charges needs to increase by 9.25 percent overall in FY18 and 9.0 percent in FY19 to cover the expenditures identified in the proposed FY18 and FY19 operating and capital budgets, and to meet Board policy goals. Table 1 below illustrates the amount of revenue needed from the FY18 and FY19 increases in water service charges to fund FY18 and FY19 expenditures. Between FY17 and FY19 operation and maintenance (O&M), debt service, and capital expenses are budgeted to increase to varying degrees. In total, expenses in FY19 are projected to be \$772.35 million, 13.8 percent higher than FY17. The District can access a variety of non-water charge based revenues such as property taxes, lease revenues, reserves, and bond proceeds. These revenues are projected to cover \$264.8 million of expenditures in FY19, leaving \$507.5 million to be addressed from revenues from water service charges. FY17 water service charge revenues generated \$429.0 million of the necessary \$507.5 million, leaving \$78.5 million, or 18.25 percent, of incremental expenditures to be addressed from increases in water service charges. This 18.25 percent increase is proposed to be distributed over two years, with a 9.25 percent increase in FY18 and a 9.0 percent increase in FY19.

Table 1 – Revenue Shortfalls (In Million\$) Addressed Through Rate Increase

	FY17	FY19	2-Yr Δ
Revenue Requirement			
+ O&M expense	\$262.2	\$292.5	11.6%
+ Debt service expense	180.2	210.0	16.5%
+ Capital expense	236.1	269.8	14.3%
Total expenses =	678.5	772.3	13.8%
- Other revenues	-225.5	-264.8	17.4%
Revenue requirement =	\$453.0	\$507.5	12.0%
Revenue Adjustment			
+ Revenue requirement		\$507.5	
- Revenue from existing rates		-429.0	
Difference =		78.5	
Total Rate Revenue Requirement Adjustment		18.25%	

The details of the FY18 and FY19 budget objectives, operating budget, capital expenses, and debt expenses are contained in the FY18 and FY19 Proposed Biennial Budget and Capital Project Summaries. The proposed operating and capital budgets, combined with the decreased water consumption projections, contribute to the increased FY18 and FY19 water service charges in roughly the following proportions:

- Operations – additional funded positions, increases in labor and benefits, and increases in non-labor expenses drive approximately 35 percent of the additional revenue required in FY18 and FY19.
- Capital – increases in rate-funded capital and debt service drive approximately 35 percent of the additional revenue required in FY18 and FY19.
- Reduced Water Sales – reductions in assumed water sales drive approximately 30 percent of the additional revenue required in FY18 and FY19.

Continue the drought surcharge percentages calculated in the COS and implemented in FY16 as a contingency in the unlikely event of a water shortage in FY18 or FY19.

As part of long-term financial stability efforts, the District developed a staged system of drought surcharges to recover water shortage related costs. Under this staged system of drought surcharges, the drought surcharge rises as the severity of the water shortage increases. The District does not anticipate a water shortage in FY18 or FY19 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the drought

surcharge percentages that were developed in the 2015 COS study and adopted and implemented for FY16 will remain in effect as a contingency plan in the unanticipated event of a water shortage.

In its 2015 COS study, the District developed a detailed cost of service analysis to calculate the drought surcharges for the District's drought stages. The 2015 COS study calculated drought surcharges that would address the financial aspects of a limited or restricted water supply situation for each drought stage. The revenue requirement for each drought stage was developed and a drought surcharge was calculated to recover the revenue requirement based on the volume related and customer service related drought costs. The District's COS study calculated drought surcharge percentages of up to 8 percent, 20 percent and 25 percent to be assessed on the potable Water Flow Charge in each billing period during Drought Stages 2, 3 and 4, respectively. In the FY16 and FY17 budget, the Board adopted the staged system of drought surcharges to recover water shortage-related costs. After declaring a Stage 4 drought, the District implemented a 25 percent Drought Surcharge on the potable Water Flow charge for FY16 water bills. After the water shortage emergency was discontinued, the 25 percent Drought Surcharge was terminated at the start of FY17.

The District does not anticipate a water shortage in FY18 or FY19 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the drought surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will remain in effect as a contingency plan in the unanticipated event of a water shortage, water shortage emergency, or state mandated reductions in potable water use, Schedule L – Drought Surcharge Rate Schedule for Water Service (see Chapter 5). Prior to implementing drought surcharges, the District will update drought related costs and develop and adopt surcharges consistent with the COS study and will not exceed the drought surcharge percentages listed in Schedule L. The District's Proposition 218 notice for FY18 and FY19 includes information regarding these surcharges so that they remain available to the Board to implement in the event the District is in a water shortage that requires reductions in water use by its customers.

Water System Cost of Service Study and FY18 and FY19 Proposed Charges

State law and District policy requires that the District's rates and charges be based on cost of service and that they be proportional to the cost of providing service on a parcel basis. A COS study allocates operating and capital costs to customer classes based both on customer class usage characteristics and on facility design and operations. This nexus between usage and cost forms the financial and legal basis for setting utility rates and charges. Over time, both customer usage characteristics and costs can change and a COS study helps reconcile these changes with revenues under existing rates and charges. COS studies often result in recommended modifications to existing rates and charges.

The District retained Raftelis Financial Consultants (RFC) to perform COS studies for the water and wastewater systems' rates and charges, including a study of the proposed drought rate structure. The RFC study was completed in FY15 and indicated that the District's service charges were generally in line with COS principles but, as expected, the study also indicated some recommended adjustments. The recommended adjustments were incorporated into the District's water and wastewater charges and reflected in the proposed FY18 and FY19 water and wastewater service charges. For FY18 and FY19, the District updated the original COS study for the proposed and projected FY18 and FY19 expenditures, revenues, and water sales (see Appendix A). It is District policy to conduct periodic cost of service studies and as part of the most recent study, completed in

April 2015 and updated in June 2017, the District focused efforts on developing a strong and clear administrative record for its rates and charges. The District believes that its established and proposed rates for water service comply with the substantive standards of California Constitution article XIII D, section 6 and do not exceed the proportional cost of providing water service on a parcel basis at each given level of usage.

Proposed FY18 and FY19 Water Charges

Overall, service charges are proposed to increase by 9.25 percent in FY18 and 9.0 percent in FY19. Individual charges are rounded to the nearest whole cent after the increases are applied to the current charges. The impact on a customer's water bill of the proposed increases will differ slightly for each customer class and for individual customers within each customer class depending on water use and meter size. Tables 4 through 7 illustrate the impact of the proposed increases on specific charges for various categories of users. All these tables incorporate the proposed increases consistent with the COS study.

Table 4 illustrates the rates for various single family residential customers in FY17, FY18 and FY19 at varying levels of usage. The bottom row of the table shows the impact of the increases on the average single family residential customer. Note that the average customer is now using about 8 CCF per month, down from the previous historic average use of 10 CCF per month. The monthly water bill for FY17 based on the average use for single family residential customers is \$47.15 and will rise to \$51.49 in FY18, an increase of \$4.34 or 9.2 percent. In FY19 the monthly water bill will rise to \$56.12, an increase of \$4.63 or 9.0 percent.

The table shows the water bill impact from the proposed increases based on differing levels of usage. The user in the 25th percentile is among the lowest user of water at 4 CCF per month; only 25 percent of ratepayers use less. Users in the 50th percentile are the median users at 6 CCF of water; half of ratepayers use more and half use less. Ratepayers in the 75th percentile use 10 CCF of water per month; three quarters of ratepayers use less. Finally, ratepayers in the 95th percentile use 22 CCF per month; more than 95 percent of ratepayers use less. Monthly bills in FY18 for the range of usage shown below range from \$36.40 to \$127.03 and reflect a 9.2 percent increase from the corresponding monthly bill in FY17. Monthly bills in FY19 range from \$39.67 to \$138.46 and reflect an increase of 9.0 percent over FY18 monthly bills.

Table 4 – On Single Family Residential Customer Monthly Water Bill Impacts – Including Proposed Water Service and Flow Charges

Single Family Residential Water Charges on Water Bill								
	Use (CCF)	FY17 Bill	FY18 Bill	Increase from FY17	Percent Change	FY19 Bill	Increase from FY18	Percent Change
25 th Percentile	4	\$33.33	\$36.40	\$3.07	9.2%	\$39.67	\$3.27	9.0%
50 th Percentile (median use)	6	\$39.65	\$43.30	\$3.65	9.2%	\$47.19	\$3.89	9.0%
75 th Percentile	10	\$55.83	\$60.97	\$5.14	9.2%	\$66.46	\$5.49	9.0%
95 th Percentile	22	\$116.31	\$127.03	\$10.72	9.2%	\$138.46	\$11.43	9.0%
Average Single Family Residential Use*	8	\$47.15	\$51.49	\$4.34	9.2%	\$56.12	\$4.63	9.0%

*8 CCF/moth represents recent average single family residential use. Previous comparisons used 10 CCF/mo, which represented historic average single family residential use prior to recent drought conditions.

Table 5 illustrates the FY18 and FY19 monthly bill impact due to increases for non-single family residential customers based on the size of the customer's water meter and monthly water usage in CCF.

Table 5 – Other Customer Monthly Water Bill Impacts – Includes Proposed Water Service and Flow Charges

Multi-Family Residential and Non-Residential Water Charges on Water Bill									
	Meter (Inches)	Use (CCF)	FY17 Bill	FY18 Bill	Increase from FY17	Percent Change	FY19 Bill	Increase from FY18	Percent Change
Multi-Family Residential 4 dwelling units	1	25	\$142.74	\$155.88	\$13.14	9.2%	\$169.95	\$14.07	9.0%
Multi-Family Residential 5+dwelling units	1	50	\$254.24	\$277.63	\$23.39	9.2%	\$302.70	\$25.07	9.0%
Commercial	1	50	\$253.24	\$276.63	\$23.39	9.2%	\$301.70	\$25.07	9.1%
Industrial	2	500	\$2,309.32	\$2,522.58	\$213.26	9.2%	\$2,751.36	\$228.78	9.1%

Table 6 illustrates the FY18 and FY19 monthly Water Service and Private Fire Service Charges by meter size in inches. Table 7 illustrates the Proposed Flow Charge and Elevation Surcharge.

Table 6 - Proposed Monthly Water Service Charges (Meter) and Private Fire Service Charges (\$/Meter Size)

Monthly Meter and Private Fire Service Charges on Water Bill					
	FY17	FY18	Percent Change	FY19	Percent Change
Private Fire Service Charge					
4"	\$107.36	\$117.29	9.2%	\$127.85	9.0%
6"	209.87	\$229.28	9.2%	\$249.92	9.0%
8"	332.87	\$363.66	9.2%	\$396.39	9.0%
Water Service Charge					
Single Family 5/8" & Residential 3/4"	\$20.69	\$22.60	9.2%	\$24.63	9.0%
Multi-Family Residential 2"	89.32	\$97.58	9.2%	\$106.36	9.0%
Other 4"	268.83	\$293.70	9.3%	\$320.13	9.0%

Table 7 - Proposed Water Flow Charge (Volume) and Elevation Surcharge (\$/CCF)

Water Flow and Elevation Charges on Water Bill					
Flow Charges	FY17	FY18	Percent Change	FY19	Percent Change
Single Family Residential					
Tier 1 up to 7 CCF	\$3.16	\$3.45	9.2%	\$3.76	9.0%
Tier 2 up to 16 CCF	\$4.34	\$4.74	9.2%	\$5.17	9.1%
Tier 3 over 16 CCF	\$5.74	\$6.27	9.2%	\$6.83	8.9%
Multi-Family Residential	\$4.46	\$4.87	9.2%	\$5.31	9.0%
Other (commercial/industrial)	\$4.44	\$4.85	9.2%	\$5.29	9.1%
Nonpotable/Recycled Water	\$3.46	\$3.78	9.2%	\$4.12	9.0%
Elevation					
Band 2	\$0.64	\$0.70	9.4%	\$0.76	8.6%
Band 3	\$1.33	\$1.45	9.0%	\$1.58	9.0%

Drought Surcharges

Table 8 below shows the current drought surcharge percentages on potable Water Flow Charges. Schedule L – Drought Surcharge Rate Schedule for Water Service (see Chapter 5) has been modified to reference the drought surcharge percentages from the 2015 COS rather than the equivalent FY17 drought surcharge rate expressed in \$ per CCF that was listed in the prior version of Schedule L.

Table 8 – Drought Surcharge Percentages on Potable Water Flow Charges

	Maximum Applicable Drought Surcharge Percentage in 4 Stages			
	1	2	3	4
All potable water flow charges	0%	8%	20%	25%

In the unlikely event that a water shortage occurs, prior to implementing drought surcharges, the District will update the drought related costs and develop and adopt surcharges consistent with the COS study, not to exceed the drought surcharge percentages listed above. The District's California Constitution article XIID, section 6(a) notice for FY18 and FY19 includes information regarding these surcharges as a contingency plan.

RECOMMENDED REVISIONS TO OTHER WATER SYSTEM CHARGES

In addition to the changes in the water service charges described above, this report recommends revisions to other District water rates, charges and fees. These charges and fees are not subject to the requirements of Proposition 218. Copies of the charges and fees recommended for revisions are shown under Chapter 5 of this report.

The District periodically reviews the rates, charges and fees in the Schedules of Water System Charges to ensure that the charges and fees reflect the District's cost of service. For the FY18 rates, charges and fees, in order to incorporate increased costs related to salaries and benefits, the following schedules rates, charges and fees are recommended for update:

- Schedule B – Account Establishment Charge
- Schedule C – Charges for Special Services
- Schedule M – Water Service Estimate Application Fees
- Real Property Use Application Fees
- Public Records Act Fee Schedule and District Publications Fees

Schedule B – Account Establishment Charge

Based on the analysis of the District's cost to set up a new account or to transfer an account for a customer moving from one address to another, the Account Establishment Charge is proposed to increase from \$52 to \$54 in FY18. The charge for customers who use the EBMUD website to sign up online for a new account is lower reflecting the District's labor cost savings. The lower Account Establishment Charge for online customers will increase from \$36 to \$38 in FY18. The Account Establishment Charge for customers who qualify for the Customer Assistance Program (CAP) will

be \$27 in FY18, which is consistent with the CAP's 50 percent discount on charges for monthly water service. The CAP is subsidized from property tax revenues received by the District.

Schedule C – Charges for Special Services

Schedule C contains the charges for special customer services such as the meter testing program, backflow prevention program, lien program, public hydrant meters, and service interruptions. After a detailed review of the cost to provide each of the services, the following recommended changes are proposed for FY18.

Meter Testing Charges

The District is responsible for the maintenance and replacement of all water meters, and recovers those costs through the monthly water service charge. When the District suspects or determines a water meter is not functioning properly, the District tests and/or replaces the malfunctioning meter. When a meter is tested at the sole request of the customer, the District bills the customer a Meter Testing Charge based on the size of the meter to recover the cost of performing this work. If the meter is found to be over-registering water consumption, the Meter Testing Charge is refunded. For FY18, the Meter Testing Charges are proposed to increase between 3.1 percent and 3.8 percent depending on meter size, reflecting actual District costs.

Service Interruption Charges

If the District is unable to collect or establish and maintain payment arrangements for payment of unpaid water bills, the District will discontinue water service to the customer. Initially, water service is shut off at the meter, which triggers a Service Trip Charge (see below). The Service Trip Charge is proposed to increase in FY18 from \$45 to \$46, reflecting District costs. After the customer pays the delinquent charges owed to the District, another Service Trip Charge of \$46 is assessed to restore the service. If the customer requests service be restored after normal business hours, an after-hours Service Trip Charge is assessed instead of the normal Service Trip Charge. The after-hours Service Trip Charge is proposed to increase from \$62 to \$63 for FY18. If it is determined that the customer tampered with the water meter after the District has shut off water service, a \$1,000 Water Theft Penalty will be charged and an S-Lock will be placed over the meter at an additional charge. The S-Lock charge is proposed to increase from \$57 to \$59 for FY18. If the customer is determined to have tampered with the S-Lock, the meter will be plugged at a proposed FY18 Plug Service Interruption Charge of \$402, an increase from the current charge of \$394.

Lien Program Fees

The Lien Program Fees have been amended to reflect the District's staff costs and the fees charged to the District by Alameda and Contra Costa Counties to record and remove the liens. For FY18, the property tax transfer fee for Contra Costa County will increase from \$3 to \$6 per parcel.

Wasteful Use Charge and Flow-Restrictor Installation Charge

If the District suspects that a customer is using water in a wasteful manner, District staff contacts the customer and investigates the customer's water use. If it is determined that the customer is violating the District's water service regulations on water waste, a Wasteful Use Charge, will be

charged to recover the cost of monitoring the customer's ongoing water use. The Wasteful Use Charge for FY18 is proposed to be \$46, an increase from the current charge of \$45. If the customer continues to violate the water service regulations on water waste, a flow restrictor may be installed at the customer's expense. The cost of installing the flow restrictor has been updated for FY18, increasing the Flow-Restrictor Installation Charge from \$113 to \$115 for small meters under 1½ inches and from \$243 to \$248 for 1½ and 2-inch meters.

Backflow Device Annual Certification and Violation Charges

To ensure that the water system is not compromised by contaminants, pollutants or plumbing hazards, the District requires a backflow prevention device on some water service connections. A Backflow Device Annual Certification Charge is assessed to cover the administrative costs related to inspection and verification, and is proposed to be \$54 for FY18, up from the current rate of \$53. In addition, there is a charge for labor to complete any necessary surveys and inspections which is proposed to increase from \$120 to \$124 per hour. The District maintains a list of certified private companies that can perform the required backflow test. For a company to be included on the list of certified backflow testers, the District charges a Certified Tester Listing Charge. The Certified Tester Listing Charge for FY18 is proposed to be \$151, up from the current charge of \$148. If it is determined that a customer has violated the District's backflow prevention requirements, the District charges a Backflow Device Violation Charge, which is proposed to increase from \$470 to \$479 in FY18, to recover the District's costs to shut off the water service and restore the service once the District verifies that the backflow requirements have been met. The term commercial was removed and some other edits were made to clarify that the backflow requirement and fees can also apply to single family premises as defined in Section 26 Protection of Public Water Supply of the District's Regulations Governing Water Service.

Intervening Water Service Agreement Fee

The District has a program that automatically transfers a property's water service account to the landlord when a tenant who is the EBMUD account holder terminates service. This program allows for water service to continue uninterrupted while the property is vacant without the landlord having to open a new account and pay an Account Establishment Charge for that property. There is a one-time processing fee for the Intervening Water Service Agreement, to recover the administrative costs to set up the agreement. For FY18, the Processing Fee for Intervening Water Service Agreement is proposed to remain at \$55.

Service Trip Charge

The Service Trip Charge is proposed to increase from \$45 to \$46 in FY18. Service Trip Charges recoup the cost of sending a Field Services Representative or other District staff to a service for payment collection, payment extension, service interruption and restoration, and other similar account related stops.

Public Hydrant Meter Account Establishment and Site Visit Charges

The hydrant meter program provides customers with a 3-inch hydrant meter that can be hooked up to a public fire hydrant to meter water use when temporary water service has been approved by the District. The Public Hydrant Meter Account Establishment and Renewal Charge to establish and

annually renew the hydrant meter account is proposed to increase in FY18 from \$109 to \$111. The hydrant meter program relies on customers to regularly self-report meter readings and periodically exchange their meters. When a customer does not follow the terms of the agreement, a Public Hydrant Meter Account Site Visit Charge is charged to recover the cost of investigation and site visits by a Field Services Representative or other District staff to recover the meter. For FY18, the Public Hydrant Meter Account Site Visit Charge is proposed to increase to \$222 from the current charge of \$217.

Schedule M – Water Service Estimate Application Fees

Proposed edits were made to the schedule to clarify that the total square footage of the structures would be used to calculate the application fee and that fire service requests estimate fees are required for standard services greater than 1½ inches.

Real Property Use Application Fees

The District may allow for use of its property by other public agencies or private entities after evaluating if the proposed use adversely impacts District operations, is compatible with District land management policies and practices, and if there are measurable benefits to the District. The Real Property Use Application Fees schedule recovers the cost of evaluating the applications based on the type of use being requested. For FY18 the following changes to Real Property Use Application Fees are proposed:

- Fee Title Fee for Properties for Sale will increase from \$2,000 to \$2,100
- Unsolicited Title Fee will increase from \$12,000 to \$12,300
- Utility Type Easement Fee will increase from \$2,000 to \$2,100
- Other types of Easement Fees will increase from \$5,600 to \$5,700
- Revocable License Fee will increase from \$1,600 to \$1,700
- Lease Fee will increase from \$2,000 to \$2,100
- Telecommunication Lease Fee will increase from \$3,400 to \$3,500
- Property Entry and Rights of Entry Permits will increase from \$300 to \$310
- Limited Land Use Permit will increase from \$100 to \$110
- Temporary Construction Easement/Encroachment Permits on open land with no District facilities will increase from \$600 to \$630
- Survey costs will increase from \$125/hour to \$140/hour

Public Records Act Fee Schedule

We are recommending revisions to the fee schedule that covers the costs of duplication of District records in accordance with the Public Records Act. The recommended changes to the fee schedule include updating the cost of duplication and programming labor charges to reflect direct labor costs for the job classifications involved in providing the records. We recommend increasing the labor costs for providing existing paper and electronic records from \$0.54 per minute to \$0.56 per minute, and for records on tape, CDs, or DVDs from \$0.54 per minute to \$0.56 per minute. Additionally, we propose increasing the labor costs associated with providing records that do not already exist from \$1.02 per minute to \$1.05 per minute.

Water Service Regulations

In response to issues raised by newly enacted state laws, the District needs to make several changes to Sections 1, 2, 3, 17, 26 and 31 of its Regulations Governing Water Service. Some of these proposed changes to the Regulations impact how the System Capacity Charges are assessed. A new law was enacted in 2017 to facilitate the development of accessory dwelling units (ADU). Under this new law, the District cannot require the installation of a new water meter to serve an ADU created within the existing space of an existing single family residence or accessory structure except under limited circumstances. The new law also exempts the fire sprinkler requirement for qualifying ADUs provided fire sprinklers are not required for the existing single family residence. Prior to the enactment of this law, fire districts required the installation of fire sprinklers within new ADU, and in order to meet the new fire and domestic demands, the District had required a new water meter to serve the ADUs. The District had also treated any premises with multiple dwelling units as multi-family premises for the purposes of assessing System Capacity Charges. With the proposed changes to Section 1, 2, and 3 of the District's Regulations Governing Water Service and the changes to Schedule J – System Capacity Charge, all applicants for single family premises with ADUs will now be considered single family for the purposes of assessing System Capacity Charges. See Chapter 2 for the details of impact of these changes to the System Capacity Charges.

Effective January 1, 2018, State law (Senate Bill 7) requires new multi-family residential and mixed use residential and commercial structures to submeter individual dwelling units to encourage conservation and provide appropriate safeguards for both tenants and landlords. The District's regulations currently require individual District-owned water meters for each dwelling unit in multi-family residential buildings and commercial structures with up to three occupied stories in height. To be consistent with the new law, the proposed changes to the District's regulations will require that individual District-owned meters or applicant-owned submeters be installed in new multi-family residential buildings and commercial structures regardless of the height of the buildings or structures. The decision between installing District-owned meters or applicant-owned submeters will be determined solely by the District.

We recommend that the water service regulations be amended as follows:

Section 1 – Explanation of Terms Used in These Regulations

Proposed changes amend definitions pertaining to Units and Premises to conform to newly enacted State laws related to accessory dwelling units and local ordinances that define Live/Work units as residential and Work/Live units as non-residential for the purposes of the assessing the System Capacity Charge. The proposed additions to the Regulations define Live/Work and Work/Live units to align with the local land use designation. The proposed changes clarify the various types of Units and Premises that may be requesting new water services. The purpose is to assess the appropriate System Capacity Charges in accordance with the proposed land use designated by local agencies. Additionally, amendments to definitions pertaining to water efficiency requirements and outdoor water use are proposed to further promote water conservation.

Section 2 – Applying for Service

To be consistent with the new law requiring individual meters or submeters for each dwelling unit in new multi-family residential or mixed use residential and commercial structures, proposed

amendments to Section 2 include the requirement that individual District-owned meters or applicant-owned submeters are installed in new multi-family residential buildings and commercial structures, regardless of their height, when determined solely by the District to be appropriate. The District's regulations currently require individual District-owned water meters for each dwelling unit in multi-family residential buildings and commercial structures with up to three occupied stories in height. The proposed amendment will remove the building height limit to allow the District flexibility in determining which type of metering setup is appropriate.

Section 3 – Standard Service

Minor amendments are proposed for Section 3 in order to be consistent with proposed revisions within Sections 1, 2, and 31 of the Regulations explained above and below.

Section 17 – Change in Size of Service

The proposed changes will amend this section so that District can review the water use of an applicant who requests the relocation of a large meter (over 1½ inches) as part of a structure expansion or renovation to determine if the expansion or renovation would increase the applicants water demand and trigger an additional System Capacity Charge. For meters over 1½ inches, the District individually assesses the expected water demand for each applicant based on a review of the intended use and attributes of the premises. This water use assessment is used to calculate the System Capacity Charge for applicants requesting large meters. After the applicant pays the System Capacity Charge there is no periodic review of the actual water use of the premises for the purposes of ensuring the demand remains consistent with the originally assessed System Capacity Charge. The proposed change to the Regulations will permit the District to reassess the premises' water use if there is a change in use triggered by the expansion or renovation of structure. Under the proposed changes to the Regulations, the District would treat premises with a change in use as a request for a new service that would replace an existing service following the requirements contained in Section G Credit for Existing Services of Schedule J – System Capacity Charge of the District's Schedule of Rates and Charges.

Section 26 – Protection of Public Water Supply

There are instances when backflow devices outside of the District's meter box are required for single family premises. When this occurs, the District will not be responsible for the installation, testing, and maintenance of the backflow device. To address these situations, the regulations have been amended to define what is a conforming single family premises and clarify who is responsible for the installation, testing, and maintenance of the different types of backflow devices. Additional details about the District's backflow device program was presented at the May 9, 2017 Planning Committee meeting.

The customer will be responsible for the cost of installation and annual testing and maintenance of commercial backflow devices and residential Reduced Pressure Principle Backflow Devices (RP). An RP device is required when a customer has a well that is connected to the public water system or does not allow an inspection of their property to determine if a cross-connection exists. The District will be responsible, at its expense, during normal working hours for the installation, testing and maintenance of double check valve backflow devices for conforming single family premises where a residential well exists and there is no cross-connection.

Section 31 – Water Efficiency Requirements

Recommended amendments to Section 31 of the Regulations are for clarification, and include efficiency updates directly related to changes in State and Federal codes. For the indoor requirements, the proposed changes are largely a result of changing code requirements (lowering flow volumes), plus a new requirement for under-counter ice machines that reflect new Federal Energy Star criteria. For the outdoor requirements, the proposed modifications align with the California Model Water Efficiency Landscape Ordinance (M-WELO), which in future years will require fewer updates through referencing state requirements.

Recreation Use Fees

The District operates four upcountry recreation areas (Camanche Hills Hunting Preserve, Camanche North and South, and Pardee) and two local watershed recreation areas (Lafayette and San Pablo). These recreation areas provide access to the District's watershed to the general public while maintaining the integrity of the water supply. For those who choose to visit the recreation areas, the District has established a schedule of fees that generate revenue to support the operation of the recreation areas. The District uses several concessionaires to assist with the upcountry and the San Pablo recreation areas; Lafayette recreation area is operated by District forces. The District also permits public access to extensive trail networks in the East Bay and Mokelumne watersheds. The schedule of Recreation Use Fees is proposed to and approved by the Board of Directors as part of the biennial rate setting process. Seniors, Distinguished Veterans, and disabled visitors have received a discount on select recreation use fees for many years. In 2018, it is proposed that the District add a modest discount for active duty and retired military personnel as well.

Camanche Hills Hunting Preserve

The proposed update to the fee schedule for the Camanche Hills Hunting Preserve (CHHP) includes modifications to simplify the options for sporting clays shooting. In addition, the initiation and annual fees for family and corporate preserve licenses have proposed increases. The proposed initiation fees will increase from \$2,995 to \$3,195. The annual family and corporate maintenance fees will increase by \$100 to \$300 and \$500, respectively.

Camanche North and South Recreation Areas

There are proposed increases for calendar years 2018 and 2019 to 81 of the 135 rates and charges that are reviewed by the EBMUD Board. Fee increases are to help offset increasing labor costs for the concessionaire. The increased fees include day use, fishing, RV/trailer/boat storage, camping, boat slip fees and facility rentals. The proposed basic Recreation Use Fee increases average 5.5 percent in 2018 and 5.2 percent in 2019 at Camanche.

Pardee Recreation Area

The Pardee concessionaire has proposed a few small increases to the seasonal fees in calendar year 2018. In calendar year 2019, an average increase of 4.9 percent is proposed to basic recreation fees including camping, boat launch, boat slip rental, boat storage, RV fees and facility rentals.

Lafayette Recreation Area

There are no proposed fee changes at the Lafayette Recreation Area.

San Pablo Recreation Area

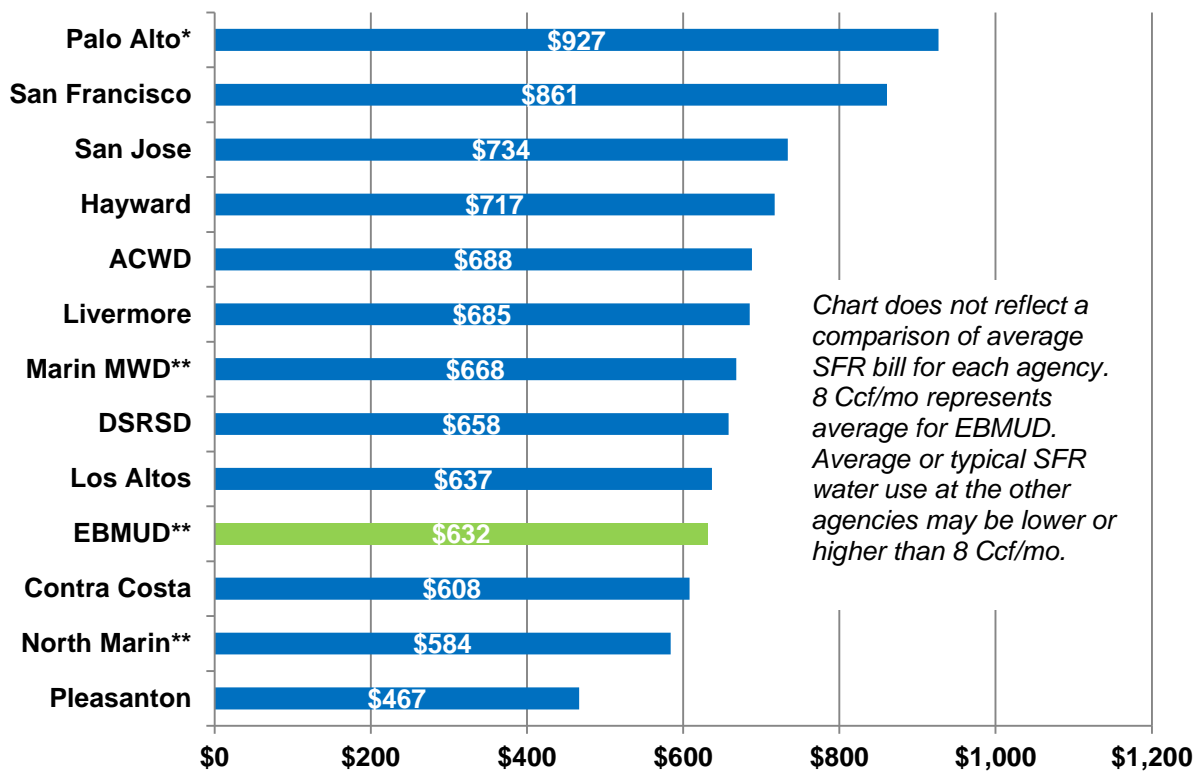
There are no proposed fee changes at the San Pablo Recreation Area.

Watershed Trails

No changes are proposed for watershed trail permits.

Exhibit 1

COMPARATIVE RESIDENTIAL WATER CHARGES – 8 Ccf/mo Annual Charge for SFR – July 2017



*FY17 rates, possible rate increases for July 2017

**Proposed FY18 rates

2. Water System Capacity Charges

Chapter 2 – Water System Capacity Charges/ Water Demand Mitigation Fees

INTRODUCTION

There is a continuing need to construct both water supply and water distribution system improvements to assure that there will be reliable and secure water service for each new or upsized connection to the District's system. The System Capacity Charge (SCC) was first established in 1983 as a means of assessing applicants an appropriate share of the costs of water distribution capital improvements within the SCC regions of the District. In 1986, an appropriate share of the costs of future water supply improvements was added to the SCC.

All applicants for water service are required to pay the SCC when the installation of a new service or upsizing of an existing connection is needed. The SCC is applied on a regional basis (See Exhibit 1 for map), and the SCC charge is updated annually to reflect construction cost escalation for facilities that have already been built or increased cost estimates for facilities yet to be constructed and financed.

In Fiscal Year (FY) 2008, the Board adopted the recommendations of the SCC Study performed by a rate consultant. The proposed FY18 SCC rates are based on updates to calculations from that study, the details of which are contained in Exhibit 2. The SCC consists of three components:

1. A System-wide Buy-In Component, which is calculated to recover a portion of the cost of existing facilities that serve the system as a whole;
2. A Regional Buy-In Component, which is calculated to recover a portion of the costs of existing facilities that serve one of the three SCC Regions (notably treatment plant and distribution facilities); and
3. A Future Water Supply (FWS) Component, which is calculated to recover a portion of the costs of future water supply projects that are allocated to new and upsized connections.

The District also has a Standard Participation Charge (SPC), a District-wide connection charge that is applicable to only a few remaining contracts for service entered into prior to 1983 that was first established in 1978. The SPC was designed to recover the District-wide average cost of distribution facilities constructed to serve new connections and was superseded by the SCC in 1983. A FWS Component was added to the SPC in 1986. The SPC charge is calculated to recover the latest Water Supply Management Plan costs and will continue to be less than the SCC charge in most regions. Customers eligible for service under the SPC regulations can pay for service under the more favorable of either of the SPC or SCC terms and conditions.

RECOMMENDATIONS

1. Adopt the FY18 Schedule J for the Water System Capacity Charge (SCC). All regions reflect updates for the construction of additional facilities, construction cost escalation, financing costs, and revised estimated costs to complete the FWS projects.

2. Adopt changes to the language in various sections of Schedule J to be consistent with the proposed changes in Sections 1, 2, 3 and 17 of the District's Regulations Governing Water Service regarding accessory dwelling units, live/work and work/live units and individually metering multi-family dwelling units.
3. Adopt the FY18 Schedule H for the SPC that reflects the allowable cost for facilities necessary to serve applicants who had separate facility agreements with the District prior to July 1, 1983.
4. Adopt the FY18 Schedule N for Water Demand Mitigation Fees for "The Wendt Ranch," "The Meadows," "The Wiedemann Ranch Development," the "Camino Tassajara Integrated Project" and the "Gale Ranch Phase II" projects, which reflect the latest proposed costs for the FWS Component of the SCC. In addition, the Water Use Offset Fees and Additional Water Use Offset Fees for "The Wiedemann Ranch Development" have been updated to reflect the latest U.S. City Average of the Consumer Price Index.

The changes and updates recommended for the SCC, SPC and Water Demand Mitigation Fees will be effective on August 14, 2017. These rates are not subject to the requirements of California Constitution article XIID, section 6.

DISCUSSION

For FY08, with the assistance from a rate consultant, the District revised its approach to the SCC and established the system-wide and regional buy-in components. Pursuant to the methodology outlined in the consultant report, the proposed SCC have been updated for the Engineering News Record Construction Cost Index escalation to reflect increasing costs to reproduce existing plant assets needed to serve prospective customers. The updated asset values used in the proposed FY18 SCC rate calculations are consistent with the rate consultant report and are shown in Exhibit 2. The FWS Component was also updated for FY18.

SCC Rate Calculations

The proposed SCC rates are shown in Table 1 for a 3/4-inch meter for single-family residential and 5/8-inch meter non-residential customers. These meter connections account for the majority of all future water service connections. Larger meters pay proportionately more based on the estimated usage of the new connections. Non-residential connections pay more in some regions due to higher consumption.

Table 1: Updated SCC

Region	Water Consumption		Unit Costs \$/100 gpd	Capacity Charge	
	Residential 3/4" (gpd)	Non Res 5/8" (gpd)		Residential 3/4" \$ (% increase)	Non Res 5/8" \$ (% increase)
Region 1	280	400	\$6,259	\$17,530 (4.7%)	\$25,040 (4.7%)
Region 2	360	535	\$8,427	\$30,340 (4.5%)	\$45,080 (4.4%)
Region 3	580	625	\$6,684	\$38,770 (4.6%)	\$41,780 (4.6%)
Region 3C	775	775	\$11,566	\$89,640 (3.5%)	See Note 1
Region 3D	775	775	\$13,012	\$100,850 (4.1%)	\$100,850 (4.1%)

Note 1: Calculated based on a 1993 Agreement with HCV & Associates Ltd., Wiedemann Ranch, Inc., and Sue Christensen.

The SCC for each region is derived from the sum of the unit charges of each of the SCC components and then multiplied by the estimated average daily water consumption in that SCC region as listed in Table 1. The District has determined average daily water consumption values for meters up through 1½ inches within each SCC region, and established SCCs based on those averages. For larger meter sizes, the SCC is determined using the same methodology as for smaller meters but calculated on a case-by-case basis from the unit charges of the three SCC components and multiplied by the estimated required demand of the requested service installation.

Applicants for nonpotable/recycled water service have their SCC calculated based solely on the FWS Component. These customers are not served by the potable water system; they are served through a separate nonpotable/recycled water system.

SCC Unit Charges

Table 2 shows the breakdown of the unit charges for individual components: system-wide buy-in; regional buy-in; post-2000 component (for Special Regions only); and future water supply costs by region.

The SCC for the two remaining Special Regions 3C and 3D recover the costs of the additional facilities that were built to serve new connections in these regions; costs associated with these facilities are being referred to in Schedule J as the “post-2000 component” unit charge. The regional buy-in unit costs for Special Regions 3C and 3D are lower than the Region 3 regional buy-in unit costs to account for distribution pumping and reservoir costs that are already included in the post-2000 component.

Table 2: Updated SCC Unit Charges

Region	Unit Charges \$/100 gpd				
	System-Wide Buy-In	Regional Buy-In	Post 2000	Future Water Supply	Total
Region 1	\$2,109	\$2,104		\$2,046	\$6,259
Region 2	\$2,109	\$4,272		\$2,046	\$8,427
Region 3	\$2,109	\$2,529		\$2,046	\$6,684
Region 3C	\$2,109	\$1,897	\$6,960	\$600*	\$11,566
Region 3D	\$2,109	\$1,897	\$6,960	\$2,046	\$13,012

*The FWS Component for Region 3C is \$600 per 100 gpd based on the 1993 Agreement with HCV & Associates Ltd., Wiedemann Ranch, Inc. and Sue Christensen.

The SCC unit charges are calculated by dividing the current asset values from Tables 10, 11, and 16 in Exhibit 2 by the 2030 demand numbers, which are summarized in Tables 3 and 4 below:

Table 3: SCC Asset Values

Asset Category	Asset Value
System-Wide Buy-In	\$4,472,984,626*
Regional Buy-In Region 1	\$2,441,149,680
Regional Buy-In Region 2	\$1,285,928,791
<u>Regional Buy-In Region 3</u>	<u>\$1,666,841,169</u>
Regional Buy-In Total	\$5,393,973,641**
Adjusted Asset Values Used in Buy-In Unit Costs	\$9,866,958,267***
Future Water Supply	\$ 1,101,000,000

*Exhibit 2 Table 11 line 2

**Exhibit 2 Table 16 line 10

***Exhibit 2 Table 10 line 6

Table 4: SCC 2030 Demand by Region

REGION	Total Demand (MGD)	per SFR Connection (gpd)	per Non Res Connection (gpd)
Region 1	116.0	280	400
Region 2	30.1	360	535
Region 3	65.9	580	625
Total	212.0	n/a	n/a

Future Water Supply Component Details

The unit cost of the FWS Component for FY18 will increase from \$1,920 per 100 gpd to \$2,046 per 100 gpd, an increase of 6.6%, as a result of cost changes to current and future projects and updates to the costs of financing for those projects that have already been completed. The revised costs for these projects are shown in Table 5 and are described below. The total FWS cost allocated to the SCC is divided by the future demand of 53.8 MGD to calculate the unit cost of the FWS Component.

Table 5: Future Water Supply Project Costs and Unit Rate

FY18 Future Water Supply Projects (\$ millions)				
		Costs Allocated to SCC		
		Allocated Costs*	Allocated Capitalized Interest**	TOTAL
Major Projects	Total Costs			
Completed Projects				
WSMP Study and EIR Costs	\$77			
Water Recycling	139			
Freeport Regional Water Project	488			
Local Ground Water and Intertie	36			
Central Valley Project Capital Facilities	11			
Subtotal	751	526	253	779
Future Projects	460	322	-	322
TOTAL	\$1,211	\$848	\$253	\$1,101 ***
Future Water Supply Unit Rate	\$1,101 Million/53.8 MGD = \$2,046 per 100 gpd			

*70% of the Total Costs are allocated to the Future Water Supply Component of the SCC.

**Capitalized Interest represents the financing costs of expenditures for water supply projects that were undertaken since 1986.

***The comparable amount used in the FY17 SCC calculation was \$1,035 million.

The FWS project costs allocated to the SCC includes \$779 million for completed projects including financing costs and an additional \$322 million for future projects.

Completed Projects

Completed projects include \$77.4 million for study and EIR costs, \$139 million for current reclamation projects, \$488 million for the Freeport Regional Water Project, \$36 million for local groundwater and intertie projects, and \$11 million for the Central Valley Water Project facilities.

The current recycled water projects include the initial phase of the East Bayshore Recycled Water Project, the District's portion of the Dublin-San Ramon Services District – EBMUD Recycled Water Authority Project, North Richmond Recycled Water Project, and other recycled water irrigation projects.

The District's portion of the expenses to construct the Freeport Regional Water Project (FRWP) and the associated Folsom South Canal Connection reflects current cost information. The FRWP is a joint project with Sacramento County Water Agency. FRWP at its peak capacity can divert and treat up to 185 million gallons of water per day from the Sacramento River near the town of Freeport. The total cost of the joint project was approximately \$922 million with the District's portion of the costs of approximately \$488 million, which includes the above-mentioned intake system, pipelines and pump stations, as well as project management costs incurred by the District. FRWP has the capacity to provide the District with up to 100 million gallons of water per day.

As part of the future water supply programs, the District has completed Phase 1 of the Bayside Groundwater Project and an intertie project with Hayward-San Francisco. The intertie serves to provide an emergency connection to the San Francisco Public Utilities Commission's Hetch Hetchy water system. Construction was completed in FY09.

Capital facilities of the Central Valley Project that are allocated to the District are included in the FWS Projects.

Future Projects

Future projects in the Water Supply program include conjunctive use projects, water transfers, and the expansion of local groundwater and water recycling projects. Conjunctive use projects (including groundwater banking and storage options) are being developed with multiple San Joaquin County, Calaveras County, and Amador County water agencies. The District water transfer efforts are focused on developing long-term dry-year water transfer agreements, but the District will also continue to implement temporary, short-term water transfers as needed. Phase 2 of the Bayside Groundwater project would increase the District's ability to store water in the deep aquifer in the East Bay Plain. Another \$250 million is expected to be spent on future expansion of both the East Bayshore and DERWA projects as well as other water recycling projects in the San Ramon Valley, San Leandro, Richmond, Rodeo, and surrounding areas. The District is partnering with the Contra Costa Water District to evaluate options to participate in its Los Vaqueros Reservoir Expansion. The District has also been participating in development of the Bay Area Regional Reliability Drought Contingency Plan, but none of the other projects identified in that effort are ready to be included in the FWS plan.

SCC For Single Family, Multi-Family and Non-Residential Service

In response to issues raised by newly enacted state laws, the District needs to make several changes to Sections 1, 2, 3 and 17 of the District's Regulations Governing Water Service. These proposed changes to the Regulations impact how the System Capacity Charges are assessed.

As presented in the February 28, 2017 Finance Committee meeting, a new law was enacted in 2017 to facilitate the development of accessory dwelling units (ADU) which contains provisions related to connection fees and fire sprinkler requirements. The new law does not permit requiring the installation of a new water meter to serve an ADU created within the existing space of an

existing single family residence or accessory structure except under limited circumstances. The new law also exempts the fire sprinkler requirement for qualifying ADUs provided fire sprinklers are not required for the existing single family residence. Prior to the enactment of this law, fire districts required the installation of fire sprinklers within new ADUs, and to meet the new fire and domestic demands, the District required a new water meter to serve the ADU. Prior to the enactment of this law, the District also treated any premises with multiple dwelling units as multi-family premises for the purposes of assessing SCCs. With the proposed changes to Section 1, 2, and 3 of the District's Regulations Governing Water Service and the changes to Schedule J – System Capacity Charge, all applicants for single family premises with ADUs will be considered single family for the purposes of assessing System Capacity Charges. If the combined water demand of the single family residence and the ADU exceeds the capacity of the existing water meter, the District can require the installation of a larger water meter and the payment of an additional SCC for the increased water demand.

Beginning in 2018, a new District-supported state law will require new multi-family residential and mixed use residential and commercial structures to submeter individual dwelling units to encourage conservation and provide appropriate safeguards for both tenants and landlords. The District's Regulations currently require individual District-owned water meters for each dwelling unit in multi-family residential and commercial structures with up to three (occupied) stories in height. In compliance with the new state law, proposed amendments to Sections 2 and 3 of the District's Regulations Governing Water Service would require the installation of individual District-owned meters or applicant-owned submeters (at the District's sole discretion) for all new multi-family and commercial structures regardless of their height. This change in Regulations does not impact the way the SCCs are assessed to multi-family premises, but some of the language in Schedule J – System Capacity Charge was modified to be consistent with the proposed changes in the Regulations.

Proposed amendments to the Regulations Governing Water Service, Section 1 – Explanation of Terms Used in These Regulations will define Live/Work units as residential and Work/Live units as non-residential for the purposes of assessing SCCs. The proposed additions to the Regulations define Live/Work and Work/Live units to align with the local land use designation to ensure the appropriate SCCs are assessed.

Proposed amendments to the Regulations Governing Water Service, Section 17 – Change in Size of Service allow the District to review the water use of an applicant who requests the relocation of a large meter (over 1½ inches) as part of a structure expansion or renovation to determine if the expansion or renovation would increase the applicants water demand and trigger an additional SCC. For meters over 1½ inches, the District individually assesses the expected water demand for each applicant based on a review of the intended use and attributes of the premises. This water use assessment is used to calculate the SCC for applicants requesting large meters. After the applicant pays the SCC, there is no periodic review of the actual water use of the premises for the purposes of ensuring the demand remains consistent with the originally assessed SCC. The proposed changes to the Regulations will permit the District to reassess the premises' water use if there is a change in use triggered by the expansion or renovation of a structure. Under the proposed changes to the Regulations, the District would treat premises with a change in use as a request for a new service that would replace an existing service following the requirements contained in Section G Credit for Existing Services of Schedule J – System Capacity Charge of the District's Schedule of Rates and Charges.

Exhibit 1

**East Bay Municipal Utility District
Distribution System SCC Regions**

Exhibit 2

Table 7. EBMUD Water SCC Review

Water System Fixed Asset Balances (as of 1/1/2017)

Account	Description	Original Cost	Current Value ENR	Allocation
			2017*	
1001	Auto Control System	\$69,616,886	\$130,527,986	System-wide
1005	Hydroelect Power Generation	\$50,165,544	\$144,220,541	System-wide
1015	Source of Water Supply	\$116,244,212	\$804,067,784	System-wide
1025	Raw Wtr Transmission	\$326,793,370	\$2,216,715,020	System-wide
1060	Raw Wtr Trans Pump	\$40,844,897	\$121,913,269	System-wide
1080	Terminal Reservoirs	\$193,360,238	\$912,131,705	System-wide
1100	Water Treatment	379,876,736	\$869,942,907	By Region
1130	Distribution Pumping	176,813,081	\$344,199,342	By Region
1140	Distribution Reservoirs	338,690,760	\$1,009,832,200	By Region
1166	Distribution Mains	1,133,134,095	\$3,950,910,925	By Region
1170	Distribution Aqueducts	89,169,460	\$315,074,786	By Region
1175	Pressure Regulators	30,625,255	\$65,910,110	By Region
1180	Venturi Meters & Cath Prot Sta	6,032,937	\$12,043,414	By Region
1185	Distribution Hydrants	55,112,392	\$200,614,258	By Region
1200	General Plant Structures	\$217,567,238	\$404,120,881	System-wide
1205	Equipment-Trans & Constr	\$50,498,327	\$76,710,295	System-wide
1210	Equipment-Office	\$19,922,148	\$34,129,781	System-wide
1215	Equipment- Eng & Lab	\$3,699,288	\$6,716,267	System-wide
1220	Equipment-Tools & Work	\$4,516,067	\$8,222,970	System-wide
1225	Equipment- Stores	\$7,894	\$14,041	System-wide
1230	Equipment- Shop	\$1,688,016	\$3,112,898	System-wide
1300	Land Source of Supply	\$7,832,091	\$104,260,582	System-wide
1310	Land Raw Wtr Trans	\$3,710,592	\$49,412,832	System-wide
1315	ROW Raw Wtr Trans	\$1,229,538	\$3,354,905	System-wide
1320	Land Terminal Reservoirs	\$18,931,841	\$223,218,265	System-wide
1330	Land Water Treatment	\$2,974,390	\$20,065,150	System-wide
1340	Land Reclamation	\$2,174,793	\$4,180,710	System-wide
1350	Land Distribution	\$7,928,007	\$62,439,683	System-wide
1355	Land	\$1,737,088	\$4,330,876	System-wide
1360	Land General Plan	\$7,714,529	\$22,570,044	System-wide
1910	Unallocated As Built Costs	\$10,304,085	\$18,950,413	System-wide
1911	Deferred Software Costs	\$66,439,595	\$92,266,173	System-wide
1981	Dfd EB Wtrshed Master Pln Costs	\$5,900,230	\$8,891,664	System-wide
1985	Dfd Lab Expansion Costs	\$8,874,204	\$16,624,477	System-wide
1986	Dfd Solids Receiving Costs	\$728,024	\$1,620,054	System-wide
1988	Prelim Eng & Environ Studies	\$74,404,275	\$118,052,664	System-wide
	Subtotal	\$1,315,807,407	\$5,612,841,932	System-wide
	Subtotal	\$2,209,454,716	\$6,768,527,942	By Region
	TOTAL	\$3,525,262,123	\$12,381,369,874	

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

Source: EBMUD's ledger balance as of December 31, 2013

Table 8. EBMUD Water SCC Review
System-Wide Fixed Asset Balances in Buy-In (as of 1/1/2017)

Account Description		Current Value ENR	
		Original Cost	2017*
1001	Auto Control System	\$69,616,886	\$130,527,986
1005	Hydroelect Power Generation	50,165,544	\$144,220,541
1015	Source of Water Supply	116,244,212	\$804,067,784
1025	Raw Wtr Transmission	326,793,370	\$2,216,715,020
1060	Raw Wtr Trans Pump	40,844,897	\$121,913,269
1080	Terminal Reservoirs	193,360,238	\$912,131,705
1200	General Plant Structures	217,567,238	\$404,120,881
1205	Equipment-Trans & Constr	50,498,327	\$76,710,295
1210	Equipment-Office	19,922,148	\$34,129,781
1215	Equipment- Eng & Lab	3,699,288	\$6,716,267
1220	Equipment-Tools & Work	4,516,067	\$8,222,970
1225	Equipment- Stores	7,894	\$14,041
1230	Equipment- Shop	1,688,016	\$3,112,898
1300	Land Source of Supply	7,832,091	\$104,260,582
1310	Land Raw Wtr Trans	3,710,592	\$49,412,832
1315	ROW Raw Wtr Trans	1,229,538	\$3,354,905
1320	Land Terminal Reservoirs	18,931,841	\$223,218,265
1330	Land Water Treatment	2,974,390	\$20,065,150
1340	Land Reclamation	2,174,793	\$4,180,710
1350	Land Distribution	7,928,007	\$62,439,683
1355	Land	1,737,088	\$4,330,876
1360	Land General Plan	7,714,529	\$22,570,044
1910	Unallocated As Built Costs	10,304,085	\$18,950,413
1911	Deferred Software Costs	66,439,595	\$92,266,173
1981	Dfd EB Wtrshed Master Pln Costs	5,900,230	\$8,891,664
1985	Dfd Lab Expansion Costs	8,874,204	\$16,624,477
1986	Dfd Solids Receiving Costs	728,024	\$1,620,054
1988	Prelim Eng & Environ Studies	74,404,275	\$118,052,664
TOTAL		\$1,315,807,407	\$5,612,841,932

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

Source: EBMUD's ledger balance as of December 31, 2013

**Table 10. EBMUD Water SCC Review
Adjustment of Fixed Asset Value**

	Value	% of Total
1/1/17 Fixed Assets Value (Escalated by ENR)	\$12,381,369,874	
6/30/16 Fixed Assets Value (Escalated by ENR)	\$12,154,436,884	100%
Adjustment to Fixed Assets:		
Less Outstanding Debt (6/30/16)	-\$2,808,757,000	
Plus Existing Cash Reserves (6/30/16)	\$340,431,000	
Net Fixed Assets Value (6/30/16)	\$9,686,110,884	79.69%
Net Fixed Assets Value (1/1/17)	\$9,866,958,267	
Adjustment Factor of Fixed Assets	79.69%	

**Table 11. EBMUD Water SCC Review
Calculation of Buy-in to System-Wide Fixed Assets**

System-Wide Fixed Assets (from Table 7)	\$5,612,841,932
Net System-Wide Fixed Assets Value	79.69%
	\$4,472,984,626
District Projected Net 2030 Consumption (gpd)	212,000,000
Buy-in to Net System Wide Fixed Assets (\$/100 gpd)	\$2,109

Table 16. EBMUD Water SCC Review
Combined Regions Regional Fixed Assets Buy-in Calculations*
(as of 1/1/17)

Account	Descr	Region1	Region 2	Region 3	Total
1100	Water Treatment	\$430,386,274	\$142,044,453	\$297,512,181	\$869,942,907
1130	Distr Pumping	\$67,338,653	\$117,295,538	\$159,565,151	\$344,199,342
1140	Distr Reserv	\$276,239,068	\$370,785,461	\$362,807,671	\$1,009,832,200
1166	Distr Main	\$1,918,545,358	\$843,446,354	\$1,188,919,214	\$3,950,910,926
1170	Distr Aqueducts	\$250,117,615	\$64,957,171	\$0	\$315,074,786
1175	Pressure Regul	\$17,285,418	\$40,163,804	\$8,460,887	\$65,910,110
1180	Venturi & Cathodic	\$7,506,381	\$654,078	\$3,882,954	\$12,043,412
1185	Distr Hydrants	<u>\$95,812,706</u>	<u>\$34,344,834</u>	<u>\$70,456,718</u>	<u>\$200,614,258</u>
	Total	3,063,231,473	1,613,691,693	2,091,604,776	6,768,527,942
	Adjusted totals	79.69% 2,441,149,680	1,285,982,791	1,666,841,169	5,393,973,641
	Regional Consumption gpd	116,000,000	30,100,000	65,900,000	
	Regional Buy-in \$/100 gpd	\$2,104	\$4,272	\$2,529	

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

3. Wastewater System Rates and Charges

Chapter 3 – Wastewater System Rates and Charges

INTRODUCTION

The District updates the wastewater system charges biennially in conjunction with the development of its budget. The charges are designed to recover the costs identified in the proposed operating and capital budgets and to meet Board policy goals. Wastewater service charges that are collected on the water bill include the Service Charge, Strength Charge, and Flow Charge. Other Wastewater charges include special fees collected for the Pollution Prevention (Pollution Prevention Fees) and Pretreatment Programs (permit fees), the Wet Weather Facilities Charge collected on the property tax bill and other ancillary charges. The District completed a cost of service (COS) study in FY15 to ensure that all of the District's charges are appropriately and equitably established consistent with California law. The proposed overall increase to wastewater service charges is 5.0 percent for FY18 and 5.0 percent for FY19. Illustrations of the varying impacts of the cost of service changes and overall FY18 and FY19 rate increases are presented in this chapter.

Details of the cost of service adjustments and the FY18 and FY19 rate calculations are contained in the District's April 9, 2015 COS study and the update for FY18 and FY19, respectively (see Appendix A). They are also addressed in the General Manager's April 6, 2017 memo to the Board which discusses the proposed FY18 and FY19 rates that are subject to California Constitution article XIII D, section 6. The wastewater systems rates and charges will be effective on bills issued on or after July 12, 2017 for FY18 and on or after July 1, 2018 for FY19.

RECOMMENDATIONS

The recommendations in this section cover Wastewater System charges including Treatment Charges for Service, Strength and Flow, Permit Fees, and Wet Weather Facilities Charges.

Recommended changes to Wastewater System rates and charges are:

Wastewater Treatment Charges and Wet Weather Facilities Charges:

- Increase Wastewater Treatment Charges (Service, Strength, Flow) and Wet Weather Facilities Charge 5.0 percent overall for FY18 and 5.0 percent overall for FY19. These increases support the proposed FY18 and FY19 operating and capital expenses.
- Adopt the FY18 and FY19 Wastewater Treatment Rates and Charges as shown in Wastewater System Schedule A – Rates for Treatment Service (see Chapter 5) which includes a new business classification code for Groundwater Remediation.
- Adopt the FY18 and FY19 Wastewater System Schedule B – Wet Weather Facilities Charge (see Chapter 5).

Other Wastewater Rates, Fees and Charges:

- Increase the Wastewater Discharge Permit and Estimation Permit Fees by 5 percent in FY18 and by 5 percent in FY19 and revise the Limited Term Discharge Permit to reflect higher permit costs and lower treatment costs for groundwater remediation as shown in Schedule C – Wastewater Department Industrial Permit Fees (see Chapter 5).

- Increase the Monitoring Fee by 5 percent in FY18 and by 5 percent in FY19 as shown in Schedule D – Wastewater Department Other Fees (see Chapter 5).
- Increase the Private Sewer Lateral Compliance Certificate Fee by 11 percent and the Time Extension Certificate by 8 percent in FY18 as shown in Schedule D – Wastewater Department Other Fees (see Chapter 5).
- Add an additional rate sub-category for the material type Brine with a 12.5 percent increase in FY19 for Schedule F – Rates for Resource Recovery Material Treatment (see Chapter 5).

DISCUSSION

Wastewater Treatment Charges and Wet Weather Facilities Charge

Increase overall wastewater system charges by 5.0 percent in FY18 and 5.0 percent in FY19 –

The purpose of wastewater system charges is to cover expenditures in the District's operating and capital budgets and to meet the Board's policy goals. The proposed increases address the District's needs as presented in its proposed biennial budget for FY18 and FY19. Details of the increases in individual charges are shown below under **Wastewater System Cost of Service and FY18 and FY19 Proposed Charges**. Details of the FY18 and FY19 budget objectives, operating budget, capital expenses, and debt expenses are available in the FY18 and FY19 Proposed Biennial Budget and Capital Project Summaries.

The proposed wastewater system service charge increases for FY18 and FY19 are consistent with projections made in FY15, when the FY16 and FY17 biennial budget was adopted. At that time, it was projected that rates in FY18 and FY19 would need to increase by 5.0 percent and 5.0 percent respectively. The proposed increases are consistent with those projections. The District's ability to remain true to its projections is notable given that the FY18 and FY19 budget is based on slightly lower projections of treatment flows due to customers' reduced water use. District wastewater revenues are in part dependent upon billed water usage. Despite the fact that the recent drought has ended and water use restrictions have been lifted, it is projected that customers will maintain many of their conservation habits. The proposed service charges are based on the assumption that wastewater service charge revenue will be about 3 percent lower than had been projected for FY18 and FY19 when the FY16 and FY17 biennial budget was adopted as a result of decreased consumption from entrenched customer conservation habits. The rate increases for FY18 and FY19 are consistent with the levels projected for these years largely as a result of operating cost savings and debt savings from using more cash funding and less debt financing of capital expenditures.

Revenue from wastewater service charges needs to increase by 5.0 percent overall in FY18 and by 5.0 percent in FY19 to cover the expenditures identified in the proposed FY18 and FY19 operating and capital budgets and to meet the Board's financial policy goals. Table 1 below illustrates the amount of revenue needed from the FY18 and FY19 increases to fund FY19 expenditures. Between FY17 and FY19 operation and maintenance (O&M), debt service, and capital expenses are budgeted to increase to varying degrees. In total, expenses in FY19 are projected to be \$144.6 million, 5.3 percent higher than FY17. The District can access a variety of non-wastewater service charge revenues such as bond proceeds, property taxes, and reserves. These revenues are projected to cover \$44.0 million of expenditures in FY19, leaving \$100.6 million to be addressed from revenues from wastewater service charges. FY17 wastewater service charge revenues would

generate \$91.3 million of the necessary \$100.6 million, leaving \$9.3 million, or 10.0 percent, of incremental expenditures to be addressed from increases in the wastewater service charges. This 10.0 percent increase is proposed to be distributed over two years, with a 5.0 percent increase in FY18 and a 5.0 percent increase in FY19, consistent with the projections made when the FY16 and FY17 budget was adopted.

Table 1 – Revenue Shortfalls (In Million\$) Addressed Through Rate Increase

	FY17	FY19	2-Yr Δ
Revenue Requirement			
+ O&M expense	\$70.7	\$73.1	3.4%
+ Debt service expense	29.9	31.9	6.7%
+ Capital expense	36.7	39.6	7.9%
Total expenses =	137.3	144.6	5.3%
- Other revenues	-44.2	-44.0	-0.5%
Revenue requirement =	\$93.1	\$100.6	8.1%
Revenue Adjustment			
+ Revenue requirement		\$100.6	
- Revenue from existing rates		-91.3	
Difference =		9.3	
Total Rate Revenue Requirement Adjustment		10%	

Wastewater System Cost of Service Study and FY18 and FY19 Proposed Service Charges

State law and District policy requires that the District's rates and charges be based on the cost of providing service. A COS study allocates operating and capital costs to each type of customer based on both the customer's wastewater discharge characteristics and the wastewater facility design and operations. This nexus between wastewater discharge and cost forms the financial and legal basis for setting utility rates and charges. Over time, both customer wastewater discharge characteristics and costs can change and a COS study helps reconcile these changes with revenues under existing rates and charges. COS studies often result in recommended modifications to existing rates and charges.

The District retained Raftelis Financial Consultants (RFC) to perform a COS study for the water and wastewater systems. The RFC study was completed in FY15 and indicated that the District's charges were generally in line with COS principles but, as expected, the study also recommended some adjustments. The recommended adjustments were incorporated into the District's water and wastewater service charges and continued in the proposed FY18 and FY19 water and wastewater service charges. For FY18 and FY19, the District updated the original COS study for the proposed and projected FY18 and FY19 expenditures, revenues, and treatment flows (see Appendix A).

Proposed FY18 and FY19 Wastewater Service Charges

Overall, service charges are proposed to increase by 5.0 percent in FY18 and 5.0 percent in FY19. Individual service charges are rounded to the nearest whole cent after the increases are applied to the current service charges. The impact on a customer's bill of the proposed increases will differ slightly for each customer class and for individual customers within each customer class depending on the respective monthly wastewater flow. Tables 2 through 4 illustrate the impact of the proposed increases on specific charges for various categories of users. Six hundred cubic feet (CCF) per month represents the average indoor water use for residential customers. All these tables incorporate the proposed increases consistent with the COS study.

Below, in Table 2, are the customer impacts of the proposed FY18 and FY19 service charges for wastewater treatment.

Table 2 - Customer Monthly Wastewater Treatment Bill Impacts - Includes Service, Flow and Strength Charges and Pollution Prevention Fees

Wastewater Charges on Water Bill									
	Meter (Inches)	Use (CCF)	FY17 Bill	FY18 Bill	Increase from FY17	Percent Change	FY19 Bill	Increase from FY18	Percent Change
Average Single Family Residential	5/8	6	\$19.93	\$20.89	\$0.96	4.8%	\$21.95	\$1.06	5.1%
Single Family Residential	5/8	9	\$23.20	\$24.31	\$1.11	4.8%	\$25.55	\$1.24	5.1%
Multi-Family Residential 4 dwelling units	1	25	\$64.16	\$67.21	\$3.05	4.8%	\$70.64	\$3.43	5.1%
Multi-Family Residential 5+dwelling units	1	50	\$130.55	\$136.33	\$5.78	4.4%	\$143.62	\$7.29	5.3%
Commercial	1	50	\$135.03	\$140.81	\$5.78	4.3%	\$148.10	\$7.29	5.2%
Industrial	2	500	\$7,261.03	\$7,621.31	\$360.28	5.0%	\$8,006.60	\$385.29	5.1%

The unit rates listed in Table 3 below are used to calculate the Strength Charge and Flow Charge for residential and non-residential customers based on the billable constituents in their wastewater discharge. The unit rates are based upon an allocation of costs to billable constituents for flow, chemical oxygen demand filtered (CODF) and total suspended solids (TSS) which are used to determine the unit cost for each billable constituent. The unit rate increases listed in Table 3 combine the results of the COS study with the overall rate increases for FY18 and FY19.

Table 3 - Proposed Wastewater Treatment Unit Rates

Wastewater Treatment Unit Rates					
Unit Rates	FY17	FY18	Percent Change	FY19	Percent Change
Service Charge (\$/account)	\$5.55	\$5.83	5.0%	\$6.12	5.0%
Flow (\$/CCF)	1.085	1.139	5.0%	1.196	5.0%
Strength - CODF (\$/pound)	0.321	0.337	5.0%	0.354	5.0%
Strength -Total Suspended Solids (\$/pound)	0.469	0.492	4.9%	0.517	5.1%

Residential Service Charges

The residential service charge on the water bill is composed of the Wastewater Service Charges and a separate San Francisco Bay Pollution Prevention Program Fee.

For the Wastewater Service Charges, unit rates are applied to residential discharge characteristics to calculate the fixed residential Strength Charge. Residential customers also pay the Service Charge and a Flow Charge that varies with water use to a maximum of 9 CCF per month per dwelling unit. Under the proposed increase, the average wastewater charges on the residential customer bill will increase \$0.96 per month in FY18 from \$19.93 to \$20.89 (4.8 percent). For FY19, the average wastewater bill will increase \$1.06 per month from \$20.89 to \$21.95 (5.1 percent). The monthly charges include the San Francisco Bay Pollution Prevention Program Fee, which remains at \$0.20 per month for FY18 and FY19 for residential customers. In addition to the wastewater service charges collected on the water bill, wastewater customers also pay a Wet Weather Facilities Charge (described below) collected on the property tax bill depending on lot size.

Exhibit 1 compares the estimated annual residential wastewater collection and treatment service charges with comparable charges of other agencies. The total estimated average District charge for FY18, including the San Francisco Bay Pollution Prevention Fee and Wet Weather Facilities Charge, is \$349 per year for treatment and wet weather. It should be noted that in Exhibit 1 the individual city charges for wastewater collection services are added to the District's service charges in order to calculate the total charge for residential wastewater service. The total residential service charges are then compared to similar service charges for other agencies and communities in the Bay Area.

Non-residential Service Charges

Non-residential users are assigned typical waste strengths by business classification code for CODF and TSS. The unit rates are applied to the assigned strengths for each business classification code to determine individual non-residential combined flow and strength charges (\$ per CCF). The proposed FY18 and FY19 non-residential combined flow and strength charges for each business classification code (BCC) rates are shown on Schedule A – Wastewater Department

Rates for Treatment Service under Chapter 5. These charges are based on the FY18 and FY19 proposed unit rates for flow and strength as determined by the COS study and the overall 5.0 percent increases for FY18 and FY19. The non-residential combined flow and strength charges have been rounded to the nearest whole cents (\$ per CCF). The resulting increase in the non-residential combined flow and strength charges ranges from 4.0 percent to 5.3 percent when compared to FY17, depending on business classification code. In FY19, the 5.0 percent overall rate increase results in non-residential combined flow and strength charges that are 4.9 percent to 5.4 percent higher than the FY18 charges. In addition to the wastewater service charges collected on the water bill, wastewater customers also pay a Wet Weather Facilities Charge collected on the property tax bill depending on lot size (described below). For customers who do not receive a property tax bill (tax-exempt entities) the charge is collected on the water bill.

After a review of the Limited Term Discharge Permit (see below), the District proposes to add a new BCC non-residential combined Flow and Strength Charge for 4951 Groundwater Remediation. The discharges using the Limited Term Discharge Permits are typically for construction dewatering projects and had previously been assigned the combined Flow and Strength Charge of \$0.02 per gallon for groundwater under the Resource Recovery rates. After further review, the District proposes that Limited Term Discharge Permits be charged a Groundwater Remediation combined strength and flow rate of \$0.0016 per gallon or \$1.18 per CCF, using the strength concentrations of 15 milligrams per liter (mg/l) for CODF and 2 mg/l for TSS.

Non-residential users also pay the proposed Service Charge of \$5.83 in FY18 and \$6.12 in FY19 on their monthly water service bill. The San Francisco Bay Pollution Prevention Fee of \$5.48 for FY18 and FY19 is also included on the monthly water service bill for non-residential users.

Wet Weather Facilities Charge

The Wet Weather Facilities Charge funds the capital expenses of the District's infiltration and inflow facilities that are required to handle the wet weather flows that enter the wastewater system. The capital facilities are sized to meet the peak wet weather flows. The amount of wet weather flows that enter the wastewater system is proportional to the size of the collection system to serve each property. Consequently, the charge is based on a customer's lot size. Larger lots have the potential for more wet weather flows that may enter the wastewater system than smaller lots. The proposed Wet Weather Facilities Charge is based on lot size for all customers. Customers will fall within three generalized lot sizes: Small Lot (0 to 5,000 square feet (sq ft)), Medium Lot (5,001 to 10,000 sq ft), and Large Lot (over 10,000 sq ft). Beginning in FY18, the Schedule F – Wet Weather Facilities Charge will be reordered in the Wastewater Rates, Charge, and Fees to Schedule B – Wet Weather Facilities Charge.

Table 4 shows the proposed 5.0 percent increase in FY18 and FY19 for the Wet Weather Facilities Charge for each of the three lot size categories.

Table 4 - Proposed Wet Weather Facilities Charge - (\$/Lot Size)

Wet Weather Facilities Charge on Property Tax Bill							
Lot Size	FY17 Bill	FY18 Bill	Increase from FY17	Percent Change	FY19 Bill	Increase from FY18	Percent Change
Small Lot 0 - 5,000 sq.ft.	\$94.10	\$98.80	\$4.70	5.0%	\$103.74	\$4.94	5.0%
Medium Lot 5,001 - 10,000 sq.ft	\$147.00	\$154.34	\$7.34	5.0%	\$162.06	\$7.72	5.0%
Large Lot >10,000 sq.ft	\$336.00	\$352.80	\$16.80	5.0%	\$370.44	\$17.64	5.0%

Wastewater Pollution Prevention and Pretreatment Fees

The District must undertake a variety of activities to successfully operate the Pretreatment Program and Pollution Prevention Program required by the United States Environmental Protection Agency (EPA) and the State of California.

Pretreatment Program activities include:

- Establishing discharge permit and monitoring requirements for industrial and commercial users
- Conducting inspections of industrial and commercial facilities
- Sampling industrial and commercial users' waste streams
- Reviewing industrial and commercial user reports
- Determining industrial and commercial user compliance status
- Initiating enforcement actions
- Reporting progress to the EPA and the Regional Water Quality Control Board (RWQCB)

San Francisco Bay Pollution Prevention Program activities include:

For non-residential customers -

- Identifying and monitoring pollutants of concern
- Identifying types of commercial businesses that discharge the pollutants of concern, collaborating with professional associations to develop and implement feasible pollutant control strategies, issuing permits with appropriate requirements to businesses in the identified category, and establishing inspection programs for the businesses
- Inspecting facilities in the identified business types to confirm implementation of best management practices
- Developing Pollution Prevention control strategies and conducting pollution prevention opportunity assessments and audits
- Conducting targeted outreach for identified business types including developing and distributing best management practices information and pollution prevention literature

- Developing source monitoring and surveillance techniques
- Coordinating with other wastewater agencies to obtain efficiencies in program development and production of outreach materials
- Provide pollution prevention information for businesses on the District's website

For residential customers -

- Targeting outreach for residential discharges of pollutants of concern
- Developing collaborative efforts with other wastewater agencies to obtain economies of scale and other efficiencies
- Establishing strategic partnerships with other organizations such as Save The Bay, Baykeeper, and Environmental Working Group
- Conducting research to identify possible control strategies for residential sources of emerging pollutants of concern
- Developing and implementing product stewardship activities
- Providing opportunities for residential customers to dispose of targeted pollutants in an environmentally responsible manner
- Providing pollution prevention information for residents on the District's website

To effectively implement and ensure compliance with the Federal and State pretreatment program regulations, the District implements a permitting, monitoring, and enforcement response system approved by the EPA. The EPA requires that the District provide sufficient budget and staff for program implementation. Sufficient resources and qualified personnel are funded primarily by fees that are applied to industrial and commercial users. Each year, the District's Pretreatment and Pollution Prevention Program budget and source of funding is reviewed by the EPA and RWQCB.

In response to continuing changes in the National Pretreatment Program and to meet requirements of the District's Main Wastewater Treatment Plant National Pollutant Discharge Elimination System Permit, the District must continue to upgrade the Pretreatment Program and the Pollution Prevention program. Funds for the Pollution Prevention Program are generated by the San Francisco Bay Pollution Prevention Fees from residential and non-residential customers. Funds to operate the Pretreatment Programs are generated from fees for Wastewater Discharge Permits, Monitoring and Testing, and Violation Follow-up activities.

Pollution Prevention Program

The Pollution Prevention Program, required by the RWQCB, develops and implements strategies to minimize and monitor pollutants from both residential and non-residential sources. The fee applies to accounts in the District's wastewater service area to cover costs for program implementation. The San Francisco Bay Pollution Prevention Program Fee for non-residential customers will remain \$5.48 per month for FY18 and FY19. The fee for residential customers will remain \$0.20 per month for FY18 and FY19. In order to reduce residential pollutants that may harm the District's wastewater treatment plant, the Pollution Prevention Program reduces residential pollutants such as mercury, pesticides, and pharmaceuticals from the sewer system through targeted outreach, and partnerships with a variety of non-governmental organizations such as Save The Bay, Baykeeper, and Environmental Working Group. The District also conducts residential outreach and provides fats, oils, and grease drop-off locations to prevent sanitary sewer overflows in its wastewater service area. The San Francisco Bay Pollution Prevention Fees are collected on the water bill in addition to the wastewater service charge.

Pretreatment Program

Wastewater Permits

There are three types of Wastewater Permits: 1) Wastewater Discharge Permit, 2) Estimation Permit, and 3) Limited Term Discharge Permit. Each has a fee to recover costs.

1. The Wastewater Discharge Permit establishes compliance reporting requirements, site-specific discharge limitations, industry self-monitoring requirements, and billing conditions for unique wastewater strength and flow. Wastewater Discharge Permits are extremely detailed and include specific provisions required by the EPA and the State. Staff must review permit application documents, develop permit requirements, review compliance reports, revise permits to incorporate rate or regulatory changes, provide information to industrial users and maintain electronic and hard copy data files. The renewal frequency of the Wastewater Discharge Permits is 5 years with an annual permit fee. The proposed increase reflects actual District staff costs, which even with 5-year permits requires an annual permit review. For FY18, the annual permit fee is recommended to be \$2,580, an increase of \$130 over the FY17 fee. For FY19 the annual permit fee is recommended to be \$2,700, an increase of \$120 over the FY18 fee as shown on Schedule C – Wastewater Department Industrial Permit Fees under Chapter 5.
2. The Estimation Permit establishes billing conditions when wastewater volumes cannot be determined by District water meters due to significant non-sewer use, such as irrigation. Estimation Permits are optional and issued at the request of a discharger when wastewater flow is significantly less than metered water consumption. In issuing these permits, staff must review permit application documents, develop permit requirements, review compliance reports, revise permits to incorporate rate or regulatory changes, provide information to industrial users, and maintain electronic and hard copy data files. The proposed increase reflects actual District staff costs. For FY18, the permit fee is recommended to be \$970, an increase of \$50 over the FY17 fee. For FY19 the permit fee is recommended to be \$1,015, an increase of \$45 over the FY18 fee as shown on Schedule C – Wastewater Department Industrial Permit Fees under Chapter 5.
3. Limited Term Discharge Permits are issued for special wastewater discharge conditions not included in the District's permit and fee structure. Typical uses of the limited term permit would be for construction dewatering or remediation projects. The permit fee covers the cost of labor required to review the application, issue the permit, including establishing pretreatment conditions when necessary, and monitor/inspect discharge conditions. The treatment cost is not included in the permit fee and had been previously based on the Resource Recovery rate schedule for groundwater waste treatment charge of \$0.02 per gallon. After a review of the District's costs to issue and administer the permit and the costs to treat the discharge from Limited Term Discharge Permits, the District proposes to increase the permit fee from \$995 per year to \$2,500 and reduce the treatment charge from \$0.02 per gallon to \$0.0016 per gallon (\$1.18 per CCF) for FY18. The current permit fee does not cover the District's costs to issue and administer the permit. Because these permits are for construction projects, the District has to manage unexpected delays, changes in site conditions and permit expiration extensions resulting in needed permit revisions and or additional administrative time to manage. While the District is proposing to increase the permit fee to recover its costs, the treatment charge for Limited Term

Discharge Permits is proposed to decrease 92 percent to reflect the very limited strength of the discharge. Typically there are 22 Limited Term Discharge Permits per year.

Monitoring Fee

For some Wastewater Discharge Permits issued to industrial users, the District requires monitoring and testing of the discharge. The Monitoring Fee recovers the cost of labor and equipment to perform field inspections, collect and coordinate samples for lab testing, install and maintain field monitoring equipment, and prepare inspection reports. Staff recommends that the current fee of \$1,300 be increased to \$1,360 in FY18 and to \$1,430 in FY19 as shown on Schedule D – Wastewater Department Other Fees, under Chapter 5. These increases reflect the actual staff costs to perform the monitoring activities.

Private Sewer Lateral Program Fees

The District has been operating under a Consent Decree with the EPA, State Water Resources Control Board, the RWQCB and the District's satellite collection system agencies since September 2014. As part of the Consent Decree, the District is required to implement a Regional Private Sewer Lateral (PSL) Ordinance. The ordinance requires property owners to obtain a compliance certificate from the District when they hit one of three triggers: transferring title to property (e.g., buying/selling a home), performing remodeling or construction work valued at greater than \$100,000, or increasing or decreasing water meter size. The District has been implementing this program since August 2011, having been under a prior regulatory order. The current fee for the compliance certificate is \$225 and was last increased in FY14. To recover the District's costs for the inspection and to issue the compliance certificate, the compliance certificate fee is proposed to increase to \$250 for FY18. The charge for a time extension certificate is also proposed to increase in FY18 from \$93 to \$100 to reflect the District's costs.

TABLE 5 – SUMMARY OF PROPOSED PERMIT FEE CHANGES

Description	FY17 Fee	Proposed FY18		Proposed FY19	
		Fee	\$ Incr	Fee	\$ Incr
Wastewater Discharge Permit	\$2,450	\$2,580	\$130	\$2,700	\$120
Estimation Permit	\$920	\$970	\$50	\$1,015	\$45
Limited Term Discharge Permit	\$995	\$2,500	\$1,505	\$2,500	-
Monitoring Fee (per event if required)	\$1,300	\$1,360	\$60	\$1,430	\$70
Private Sewer Lateral Compliance Fees - Compliance Certificate	\$225	\$250	\$25	\$250	-
Private Sewer Lateral Compliance Fees - Time Extension Certificate	\$93	\$100	\$7	\$100	-

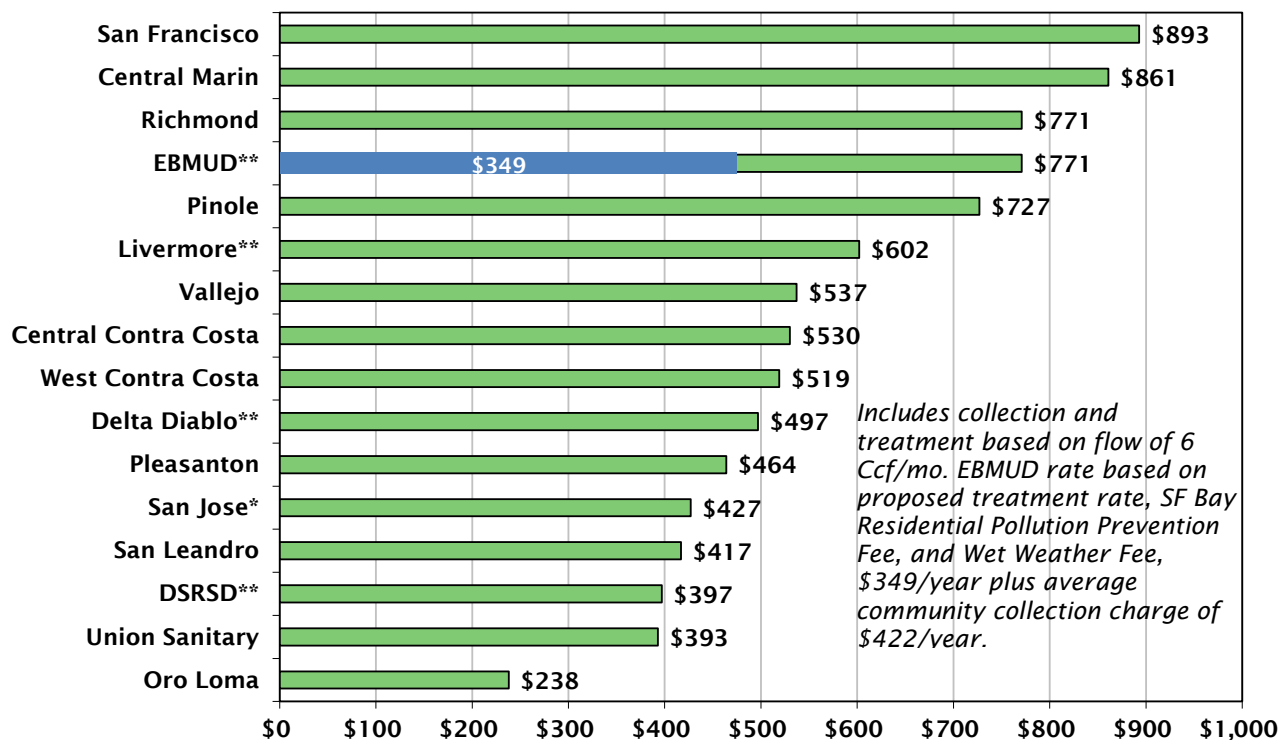
Resource Recovery Program

The Resource Recovery program has been a significant source of revenue for the District through utilization of excess capacity at the Main Wastewater Treatment Plant (MWWTP) by the acceptance of trucked wastes. This program provides an environmentally sound disposal alternative to the community while maintaining fiscal responsibility to the ratepayers by utilizing the asset of the MWWTP's excess capacity. Based on the District's experience in operating the Resource Recovery program and the knowledge of customer's waste streams, the District proposes to divide the Gray Water material type into three sub-categories (currently two sub-categories) and to rename the material type to Brine to better reflect the nature of the material and be more consistent with common industry terminology. The FY18 rate for the new middle sub-category would be \$0.05 per gallon, a \$0.01 per gallon increase over the current two sub-category rate. In FY19, the District proposes to increase the middle sub-category for Brine from \$0.05 per gallon to \$0.06 per gallon and the highest sub-category from \$0.08 per gallon to \$0.09 per gallon to reflect increased cost of treatment. For FY18, the Schedule B – Rates for Resource Recovery Waste Treatment will be reordered in the Wastewater Rates, Charge, and Fees to Schedule F – Rates for Resource Recovery Waste Treatment.

Exhibit 1

COMPARATIVE RESIDENTIAL WASTEWATER CHARGES

Annual Charge for SFR – July 2017



*FY17 rates, possible rate increases for July 2017

**Proposed FY18 rates

4. Wastewater Capacity Fees

Chapter 4 – Wastewater Capacity Fees

INTRODUCTION

The Wastewater Capacity Fee (WCF) was implemented in 1987 to recover costs of providing wastewater treatment capacity for new or expanded system use. The WCF is based on a “buy-in” or an equity approach, whereby new users “buy-in” to a wastewater system that has adequate capacity to serve both existing demands and new growth. The wastewater system capacity is expressed in terms of wastewater flow volume (flow) and strength factors including Chemical Oxygen Demand Filtered (CODF) and Total Suspended Solids (TSS). The WCF applies to all dischargers who increase wastewater volume or strength. For example, an additional capacity fee may be required to be paid if a property is developed and connects to the wastewater system, changes use or is redeveloped and increases the volume or strength of the wastewater it discharges, or a flow review has been completed by the District that demonstrates that the volume and/or strength of the wastewater discharged from a non-residential property has significantly increased or is greater than anticipated at the time a WCF was first paid. The WCF is calculated based on the anticipated flow contributions multiplied by the average wastewater strength measured or assigned for each classification of customer and the unit capacity rates for flow and strength factors. For non-residential customers, a review of the actual flow and strength may be conducted within 24 months, once the business is fully established, to verify the estimated demand for wastewater capacity. The review may result in the assessment of additional capacity fees if the actual flow and strength exceeds the original estimate.

RECOMMENDATIONS

- Adopt the FY18 Schedule G for the Wastewater Department Capacity Fees. The proposed fees include the fifth year of the five-year phase-in of the revised WCF calculations approved by the Board in 2013 and updates for the construction of additional facilities and construction cost escalations.

The changes and updates recommended for the WCF will be effective on August 14, 2017.

DISCUSSION

In 2013 the Board approved a modification to the wastewater treatment capacity used in the WCF calculation from the design-capacity value of 120 million gallons per day (MGD) to a build-out capacity of 85 MGD to reflect the treatment capacity required to serve the build-out service population of the wastewater service area. The modifications to the WCF calculations were recommended by a financial rate consultant hired to conduct a comprehensive study of the District’s WCF methodology. The Board approved the change in the WCF calculation and phased the change in over five years. If the change to the design capacity had been implemented in one step, the unit rates of the WCF would have increased in FY14 by 49.2 percent for flow, 154.8 percent for CODF and 45.7 percent for TSS and the resulting WCF increase for FY14 to the single family connection would have been 60.2 percent. Staff recommended and the Board agreed to a five-year phase-in of the change.

For FY18 staff has updated the WCF calculations to reflect construction cost escalations. These calculations are shown in Tables 1 through 5. In addition, the fifth year of the five-year phase-in of the modification of the WCF calculation was implemented. For FY18, the WCF rate is proposed to increase by 16.7 percent for the single-family connection, going from \$2,150 to \$2,510. Table 1 shows the proposed unit capacity rates for FY18 for the fifth year and final year of the 5-year phase-in. The entire list of proposed capacity fees for FY18 is contained in Schedule G – Wastewater Department Capacity Fees in Chapter 5. The updated calculations for the WCF are shown in Tables 2 through 4 of Exhibit 1.

TABLE 1 UNIT WASTEWATER CAPACITY FEE RATES WITH PROPOSED DESIGN FLOW MODIFICATION

Unit Capacity Rate	Current	FY18 PHASED-IN YR 5	% Incr
Flow /Ccf/Month	\$159.07	\$184.44	15.9%
CODF /lbs/Month	\$ 46.88	\$ 57.27	22.2%
TSS /lbs/Month	\$ 63.10	\$ 72.96	15.6%

Single Family Capacity Fee	\$2,150	\$2,510	16.7%
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Exhibit 1

Table 2

EBMUD Wastewater Capacity Fee Analysis
Asset Values by Class Code (as of 1/1/17)

<u>Class Code</u>	<u>Class Description</u>	Original Value	2017 ENR Adjusted Value
		<u>Class Total</u>	<u>Class Total</u>
WW0301 Total	North Interceptor	\$41,667,643	\$121,145,149
WW0302 Total	South Interceptor	34,258,339	190,255,304
WW0303 Total	Alameda Interceptor	9,630,895	42,637,024
WW0304 Total	Estuary Crossing	456,493	8,447,836
WW0305 Total	Central Avenue Interceptor	8,938,996	15,899,938
WW0306 Total	South Foothill Interceptor	21,468,263	41,159,149
WW0307 Total	Adeline Street Interceptor	18,612,785	33,961,079
WW0308 Total	Powell Street Interceptor	5,290,727	9,830,497
WW0309 Total	ANAS Interceptor	3,487,760	5,790,023
WW0310 Total	Wood St Interceptor	798,725	1,351,965
WW0311 Total	Mwwtp-Outfall Land	2,078,909	36,849,604
WW0312 Total	Mwwtp-Outfall Submarine	5,545,770	34,780,151
WW0313 Total	Mwwtp-Outfall Bridge	238,025	543,100
WW0321 Total	Pump Station A-Albany	3,671,840	6,770,313
WW0322 Total	Pump Station B-Fernside	6,626,560	13,178,232
WW0323 Total	Pump Station C-Krusi Park	13,118,647	26,693,498
WW0324 Total	Pump Station D-Oak Street	1,457,339	2,346,075
WW0325 Total	Pump Station E-Grand Street	1,437,475	2,168,411
WW0326 Total	Pump Station F-Atlantic Avenue	1,858,182	4,868,584
WW0327 Total	Pump Station G-Airport	2,676,794	5,920,550
WW0328 Total	Pump Station H-Fruitvale	11,425,516	21,051,371
WW0329 Total	Pump Station J-Frederick Street	1,353,719	4,151,076
WW0330 Total	Pump Station K-7Th Street	1,426,705	4,219,690
WW0331 Total	Pump Station L	4,860,237	9,215,968
WW0333 Total	Pump Station Q- Wet Weather Page St Berkeley	570,705	982,242
WW0334 Total	Pump Station N (new)	6,329	8,366
WW0335 Total	ANAS Pump Station	7,367,039	12,234,414
WW0341 Total	Mwwtp-Influent Pump Station	33,580,591	74,015,935
WW0342 Total	Mwwtp-Effluent Pump Station	18,614,506	48,759,907
WW0343 Total	Pt. Isabel Tp-Treatment & Pretreatment Structures	45,242,670	77,515,504
WW0344 Total	Pump Station M - Bridgeway	1,817,199	3,101,830
WW0346 Total	Mwwtp-Mid-Plant Pump Station	6,638,722	10,483,782
WW0347 Total	Mwwtp-Water Pump Station #3	896,125	1,724,766
WW0348 Total	Mwwtp-Wet Weather Pump Station	950,812	1,403,628
WW0349 Total	Mwwtp-Washdown Pump Station	215,504	414,779
WW0351 Total	Mwwtp-Aerated Grit Tanks	7,026,001	25,649,076
WW0352 Total	Mwwtp-Chlorine System	126,681	158,709
WW0354 Total	Point Richmond-Pretreatment Structure	8,000	14,459
WW0355 Total	Oakport Wet Weather-Pretreatment Structure	8,697,836	18,927,126
WW0356 Total	Oakport Wet Weather-Pretreatment Structure	737,462	1,606,097
WW0357 Total	Mwwtp-Grit Dewatering Station	12,447,091	17,279,214
WW0358 Total	Mwwtp-Channel Crossing For Bypass Channel	4,780,140	9,200,306
WW0359 Total	Mwwtp 90" Pipe-Primry Effluent Bypass	2,005,802	3,860,555
WW0360 Total	Mwwtp 72" Pipe-Primry Influent Bypass	2,540,549	4,737,337
WW0361 Total	Mwwtp-Diversion Structure	25,290,502	72,015,088
WW0362 Total	Mwwtp-Bypass Inlet Structure	15,415,976	64,809,356

Table 2 (cont.)

<u>Class Code</u>	<u>Class Description</u>	Original Value	2017 ENR Adjusted Value
		<u>Class Total</u>	<u>Class Total</u>
WW0363 Total	North Interceptor Junction Storage	341,675	1,073,471
WW0364 Total	Mwwtp-Bypass Outlet Structure	587,432	1,819,499
WW0365 Total	Mwwtp-Final Effluent Bypass Channel	1,910,831	2,476,298
WW0366 Total	Mwwtp-Storage Basin	20,495,220	40,065,596
WW0368 Total	Mwwtp-Interem Sludge Disposal Facility	528,794	1,159,790
WW0369 Total	Mwwtp-Reactor Deck Area-Oxygen Production	11,292,511	26,738,477
WW0370 Total	Mwwtp-Secondary Treatment Facility	63,097,122	177,138,629
WW0371 Total	Mwwtp-Grounds & Improvements	10,586,649	57,232,139
WW0372 Total	Mwwtp-Administration And Lab Building	14,623,984	24,359,995
WW0373 Total	Mwwtp-Service Building	85,103	1,492,656
WW0374 Total	Mwwtp-Chemical Storage Building (Relocated)	3,099,994	5,327,266
WW0375 Total	Mwwtp-Administration And Lab Center	28,694,859	60,073,375
WW0376 Total	Mwwtp-Maintenance Center	12,537,129	24,303,051
WW0381 Total	Mwwtp-Process Water Plant	3,234,026	11,885,583
WW0382 Total	Mwwtp-Dechlorination Station	11,538,235	21,334,013
WW0383 Total	Mwwtp-Sludge Digestion Facilities	70,847,958	114,138,505
WW0384 Total	Mwwtp-Sludge Dewatering Facilities	39,171,706	63,312,256
WW0385 Total	Mwwtp-Temp Sludge Dewatering Facility	1,862,957	2,789,625
WW0386 Total	Mwwtp-Power Generation Station	79,725,786	124,107,727
WW0387 Total	Mwwtp-Filter Plant Solids Handling Facility	20,576,772	28,108,064
WW0388 Total	Mwwtp-Odor Control At Sludge Thickener	15,478,993	30,908,586
WW0390 Total	Mwwtp-Compost Area	138,697	280,323
WW0391 Total	Oakport WW-Chlor System	591,003	1,281,591
WW0392 Total	Oakport WW-DeChlor System	925,477	1,877,833
WW0393 Total	Oakport WW-Control Bldg	1,439,408	3,134,020
WW0394 Total	Oakport WW-Eng Gen	708,623	1,543,289
WW0395 Total	Oakport WW-Drainage	1,160,534	2,527,492
WW0396 Total	Oakport WW-Washwtr Pump Sta.	121,075	263,687
WW0397 Total	Oakport WW-Storage Bldg.	436,931	951,580
WW0398 Total	Oakport WW-Lscape/Pav/Fence	1,996,609	4,332,523
WW0399 Total	Mwwtp-Scum Dewatering Station	8,971,497	13,382,625
WW0400 Total	Mwwtp-Chemical Trench	720,479	1,386,702
WW0401 Total	Mwwtp-Piping For Plant Utilities	26,513,219	50,042,456
WW0402 Total	Mwwtp-Chlorination Building	4,251,633	8,145,536
WW0450 Total	Mwwtp-Composting Facility	1,455,854	2,007,156
WW0500 Total	San Antonio Creek Wet Weather TP	13,470,868	24,343,003
WW0501 Total	San Antonio Creek Ww Dechlorination Facility	3,590,821	6,075,599
WW0502 Total	San Antonio Creek Ww Outfall Structure	2,682,144	4,839,014
WW0503 Total	San Antonio Creek Ww Gravity Sewer	540,029	976,056
WW0504 Total	San Antonio Creek Ww Lake Merritt Channel Crossing	1,759,796	3,180,682
WW0505 Total	San Antonio Creek Ww Outfall Subequacious Pipeline	2,278,822	4,118,777
WW0506 Total	Mwwtp-Bulk Storage Area	4,675,143	8,449,924
WW0507 Total	Mwwtp-Pre-Chlorination Facility	1,451,611	2,623,663
WW0508 Total	Mwwtp-Sodium Bisulfite Area	2,228,383	4,027,613
WW0917 Total	Mwwtp-Field Services Bldg	2,707,085	4,301,320
WWLAND Total	Wastewater Land - General	14,461,026	19,115,566
WWPEQP Total	All Wastewater Portable Equipment	14,399,671	21,790,572
Grand Total		\$921,356,762	\$2,106,980,261

Table 3
EBMUD Wastewater Capacity Fee Analysis
Summary of Grant Funded Fixed Assets (as of 1/1/17)

<u>Description</u>	<u>Original Cost</u>	<u>Year</u>	<u>2017 ENR Adjusted Value</u>
Digester	\$15,070,000	1976	\$66,092,087
Dewatering	4,435,827	1978	16,826,102
Temp. Dewatering	340,000	1978	1,289,697
Oxygen Production	4,086,325	1977	16,703,805
Secondary Reactors	16,260,000	1977	66,466,537
Secondary Clarifiers	12,040,000	1977	49,216,304
Grit Facilities	570,000	1976	2,499,833
Operations Center	760,000	1976	3,333,111
Scum Sys Equip	120,000	1976	526,281
Post Chlorination Equip	70,000	1976	306,997
Secondary Sys Channels	3,480,000	1976	15,262,141
Allocation of other SD	290,000	1976	1,271,845
Dechlorination	1,230,000	1978	4,665,670
Outfall Structure	450,000	1974	2,345,792
Operations Center	1,520,000	1976	6,666,222
Adm & Lab Bldg	1,950,000	1976	8,552,062
Maint. Bldg	780,000	1976	3,420,825
Lab Equip	320,000	1976	1,403,415
Process Water Plant	3,070,000	1977	12,549,340
Grounds & Imprvmnt	540,000	1977	2,207,376
Main pump Equip	590,000	1976	2,587,547
Effl. Pump Equip	960,000	1976	4,210,246
Grit Tanks	3,130,000	1976	13,727,155
Sedim Tanks	5,560,000	1976	24,384,340
Interim Sludge	460,000	1971	3,063,757
Post Chlorination	<u>210,000</u>	<u>1967</u>	<u>2,058,939</u>
Total	\$78,290,000		\$331,637,426

Table 4
FY18 EBMUD Wastewater Capacity Fee Analysis
Without Phasing

	Without Phasing Proposed FY18	Without Phasing Current FY17
Present Value Calculation		
Present Value (PV) of Existing Facilities (1)	\$2,106,980,261	\$2,027,943,490
PV of Grant Funded Facilities	(331,637,426)	(319,197,086)
Less Outstanding Bonds and Loans	(431,395,000)	(433,384,000)
Cash Reserve as Asset	76,225,600	68,161,200
Net Present Value	1,420,173,435	1,343,523,604
Unit Cost Allocation Calculation (2) Cost Allocation	Unit Cost/month	Unit Cost/month
Flow 44.89% 637,515,855 41477000 ccf/yr	184.44 \$/ccf	174.49 \$/ccf
CODF 20.59% 292,413,710 61274000 lbs/yr	57.27 \$/lb	54.18 \$/lb
TSS 34.52% 490,243,870 80632000 lbs/yr	72.96 \$/lb	69.02 \$/lb
Derivation of Single Family WCF		
Flow 6.7 ccf/mo	1,235.78	1169.08
CODF 7.90 lbs/mo	452.41	427.99
TSS 11.29 lbs/mo	823.72	779.26
Total	\$2,511.90	\$2,376.33
Round to	\$2,510	
% Increase	5.6%	

Notes:

- (1) Present value calculated based on escalation by ENR
 (Source of SD-1 fixed asset list - Finance Department, Accounting Systems)
- (2) Based on 2000 Carollo study model allocations.

Table 5**FY17 EBMUD Wastewater Capacity Fee Analysis
5-Year Phase-in of Modification to WCF Calculation**

	Without Phasing					
	FY13	FY14	FY15	FY16	FY17	FY18
Flow Unit Cost \$/CCF	\$97.40	\$145.30	\$158.83	\$167.05	\$174.49	\$184.44
CODF Unit Cost \$/lbs	17.70	45.1	49.31	51.87	54.18	57.27
TSS Unit Cost \$/lbs	39.40	57.4	62.83	66.08	69.02	72.96
SFR Connection Charge	1,235	1,978	2,163	2,275	2,376	2,510

	With 5-Yr Phase-In					
	FY13	Year 1 FY14	Year 2 FY15	Year 3 FY16	Year 4 FY17	Year 5 FY18
Flow Unit Cost \$/CCF	\$97.40	\$106.98	\$121.97	\$139.19	\$159.07	\$184.44
CODF Unit Cost \$/lbs	17.70	23.18	30.34	38.20	46.88	57.27
TSS Unit Cost \$/lbs	39.40	43.00	48.77	55.41	63.10	72.96
SFR Connection Charge	1,235	1,385	1,607	1,860	2,150	2,510

RECOMMENDED SCHEDULES OF RATES, CHARGES AND FEES

FY18

Water System

Schedule A – Rate Schedule for Water Service

Schedule B – Account Establishment Charge

Schedule C – Charges for Special Services

Schedule H – Standard Participation Charge (SPC)

Schedule J – System Capacity Charge (SCC)

Schedule L – Drought Surcharge Rate Schedule for Water Service

Schedule M – Water Service Estimate Application Fees

Schedule N – Water Demand Mitigation Fees

Regulations Section 1 – Explanation of Terms Used in These Regulations

Regulations Section 2 – Applying for Service

Regulations Section 3 – Standard Service

Regulations Section 17 – Change in Size of Service

Regulations Section 26 – Protection of Public Water Supply

Regulations Section 31 – Water Efficiency Requirements

Real Property Use Application Fees

Public Records Act Fee Schedule and District Publications Fees

Recreation Use Fees for Calendar Years 2018 and 2019

Wastewater System

Schedule A – Rates for Treatment Service

Schedule B – Wet Weather Facilities Charge

Schedule C – Industrial Permit Fees

Schedule D – Other Fees

RECOMMENDED SCHEDULES OF RATES, CHARGES AND FEES

FY18
(Continued)

Schedule F – Rates for Resource Recovery Material Treatment

Schedule G – Capacity Fees

Schedule A

Rate Schedule for Water Service

FY18



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

RATE SCHEDULE FOR WATER SERVICE

A. ONE MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$20.69	<u>\$22.60</u>
1 inch meter	31.24	<u>34.13</u>
1-1/2 inch meter	57.65	<u>62.98</u>
2 inch meter	89.32	<u>97.58</u>
3 inch meter	173.79	<u>189.87</u>
4 inch meter	268.83	<u>293.70</u>
6 inch meter	532.77	<u>582.05</u>
8 inch meter	849.53	<u>928.11</u>
10 inch meter	1,219.07	<u>1,331.83</u>
12 inch meter	1,694.22	<u>1,850.94</u>
14 inch meter	2,169.34	<u>2,370.00</u>
16 inch meter	2,750.06	<u>3,004.44</u>
18 inch meter	3,330.76	<u>3,638.86</u>

The service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

A. ONE MONTH BILLING (Continued)

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on one month meter readings for all water delivered per 100 cu. ft.:

<u>Potable Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
Single Family Residential Accounts:		
For the first 172 gpd	\$3.16	<u>\$3.45</u>
For all water used in excess of 172 gpd, up to 393 gpd	4.34	<u>4.74</u>
For all water used in excess of 393 gpd	5.74	<u>6.27</u>
Multiple Family Residential Accounts:		
For all water used	4.46	<u>4.87</u>
All Other Water Use:		
For all water used	4.44	<u>4.85</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
For all water used	\$3.46	<u>\$3.78</u>



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE A

RATE SCHEDULE FOR WATER SERVICE
(Continued)

B. TWO MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$41.38	<u>\$45.20</u>
1 inch meter	62.48	<u>68.26</u>
1-1/2 inch meter	115.30	<u>125.96</u>
2 inch meter	178.64	<u>195.16</u>
3 inch meter	347.58	<u>379.74</u>
4 inch meter	537.66	<u>587.40</u>
6 inch meter	1,065.54	<u>1,164.10</u>
8 inch meter	1,699.06	<u>1,856.22</u>
10 inch meter	2,438.14	<u>2,663.66</u>
12 inch meter	3,388.44	<u>3,701.88</u>
14 inch meter	4,338.68	<u>4,740.00</u>
16 inch meter	5,500.12	<u>6,008.88</u>
18 inch meter	6,661.52	<u>7,277.72</u>

The water service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE A

RATE SCHEDULE FOR WATER SERVICE
(Continued)

B. TWO MONTH BILLING (Continued)

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two month meter readings for all water delivered per 100 cu. ft.

<u>Potable Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
Single Family Residential Accounts:		
For the first 172 gpd	\$3.16	<u>\$3.45</u>
For all water used in excess of 172 gpd, up to 393 gpd	4.34	<u>4.74</u>
For all water used in excess of 393 gpd	5.74	<u>6.27</u>
Multiple Family Residential Accounts:		
For all water used	4.46	<u>4.87</u>
All Other Water Use:		
For all water used	4.44	<u>4.85</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
For all water used	\$3.46	<u>\$3.78</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

C. EXCEPTIONS TO TWO MONTH BILLING

Except as provided below, customer accounts shall be subject to bi-monthly meter reading and customer billing schedules.

- Accounts for which the average monthly bill is estimated to exceed \$1,500; such account will be billed monthly.
- Accounts for which there are reasonable and justifiable customer requests for monthly billing.
- Accounts for which the average monthly bill is estimated to be between \$100 and \$1,500, and the customer service manager recommends monthly billing based on an evaluation of credit and/or collection problems.

D. PRIVATE FIRE SERVICES

Effective July 1, 2005, the rates for Private Fire Services shall consist of:

FIRST – A MONTHLY SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$11.01	<u>\$12.03</u>
1 inch meter	15.12	<u>16.52</u>
1-1/2 inch meter	25.36	<u>27.71</u>
2 inch meter	37.66	<u>41.14</u>
3 inch meter	70.47	<u>76.99</u>
4 inch meter	107.36	<u>117.29</u>
6 inch meter	209.87	<u>229.28</u>
8 inch meter	332.87	<u>363.66</u>
10 inch meter	476.37	<u>520.43</u>
12 inch meter	660.86	<u>721.99</u>
14 inch meter	845.37	<u>923.57</u>
16 inch meter	1,070.89	<u>1,169.95</u>
18 inch meter	1,296.39	<u>1,416.31</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

D. PRIVATE FIRE SERVICES (Continued)

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two-month meter readings for all water delivered per 100 cu. ft.:

There shall be no charge for water used through such services extinguishing accidental fires, but any water lost through leakage or used in violation of the District's Regulations shall be paid for at the rate for general use, and may be subject to a penalty as may be established by the District.

E. ELEVATION SURCHARGE

Elevation Designator	AMOUNT PER 100 CU. FT.	
0 and 1	\$0.00	
2 through 5	0.64	<u>0.70</u>
6 and greater	1.33	<u>1.45</u>

The Elevation surcharge is determined by the pressure zone in which the service connection is located. Pressure zones are identified by designations that include an elevation Designator.

Schedule B

Account Establishment Charge

FY18



SCHEDULE B

ACCOUNT ESTABLISHMENT CHARGE

The charge for establishing a new account or the transfer of an account for a customer moving from one address to another is ~~\$52.00~~\$54.00 with the following exceptions:

- Customers in the Customer Assistance Program shall be charged ~~\$26.00~~\$27.00.
- Landlords requiring temporary water service for a period not to exceed 60 days shall be charged \$26.00, with the balance of the account establishment charge billed for water service that exceeds 60 days.
- There will be no transfer fee to change the name of an account when the responsible party is a landlord who has signed an intervening water service agreement.
- There will be no transfer fee to change the name of an account when the same person or entity is to remain responsible.
- Upon completion of the on-line account establishment system, the charge for establishing a new account or the transfer of an account moving from one address to another on EBMUD's website over the Internet for a single family residence customer is ~~\$36.00~~\$38.00.

Schedule C

Charges for Special Services

FY18



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SCHEDULE C

CHARGES FOR SPECIAL SERVICES

A. METER TESTING

Charges for meter testing will be in accordance with the following schedule:

SIZE OF METER	TESTING CHARGES
5/8", 3/4", and 1"	\$58.00 <u>\$60.00</u>
1-1/2" and 2"	\$58.00 <u>\$60.00</u> On Site \$130.00 <u>\$135.00</u> Pull/Test
3" and larger	\$261.00 <u>\$269.00</u> On Site Actual Cost Pull and Test

B. SERVICE INTERRUPTION

The charge for shutting off water service due to non-payment of a water bill is.....~~\$45.00~~ \$46.00

The charge for restoring service after payment has been received during regular office hours is.....~~\$45.00~~ \$46.00

The charge for restoring service between 5 p.m. and 8 a.m. or on Saturday, Sunday or on a holiday is.....~~\$62.00~~ \$63.00

A service trip charge of ~~\$45.00~~ \$46.00 shall be paid in the event of the following occurrences in the field: 1) payment collection; 2) payment extension; and 3) any additional field stops to shut off service beyond the initial service interruption, including EBMUD locking the meter if the customer self-restores water service prior to making payment. (See Section M.)

An additional charge to lock or plug the meter due to non-payment or unauthorized water use is

S-Lock.....	\$57.00 <u>\$59.00</u>
Plug.....	\$394.00 <u>\$402.00</u>

C. RETURNED PAYMENT CHARGE

A charge of \$25.00 shall be paid for each check or electronic transaction received as payment to the District that is returned unpaid from a financial institution.



SCHEDULE C

CHARGES FOR SPECIAL SERVICES
(Continued)

**D. PROCESSING FEES FOR DELINQUENT CHARGE COLLECTION THROUGH LIENS
AND PROPERTY TAX BILLS ON MULTI-FAMILY RESIDENTIAL ACCOUNTS**

For multi-family residential accounts, the District may place liens on parcels with unpaid charges and collect unpaid amounts on parcels' property tax bills. Multi-family residential accounts are any residential accounts where a water meter serves two or more dwelling units.

- | | |
|--|---|
| 1. Lien Filing Fee | \$167 per Lien |
| 2. Lien Removal Fee | \$152 (in Alameda County) and \$144 (in Contra Costa County) for first lien removed

\$59 (in Alameda County) and \$51 (in Contra Costa County) for each additional lien removed at the same time |
| 3. Property Tax Transfer Fee
Unpaid Charges with Liens Recorded | \$26 plus county auditor's fee (1.7% of collected amount for Alameda County;
\$3 <u>\$6</u> per parcel for Contra Costa County) |

E. WASTEFUL USE CHARGE

A charge of ~~\$45.00~~\$46.00 shall be paid to cover the monitoring costs incurred by the District if, after written notification, excessive water use is not curtailed.

F. FLOW-RESTRICTOR INSTALLATION

The charge for District installation of a flow-restricting device on any service that continues excessive water use, after written notification, will be in accordance with the following schedule:

- | | |
|---|-------------------------------------|
| 1. On services two-inches and smaller - | |
| 5/8" and 3/4" | \$113.00 <u>\$115.00</u> |
| 1" | \$113.00 <u>\$115.00</u> |
| 1-1/2" | \$243.00 <u>\$248.00</u> |
| 2" | \$243.00 <u>\$248.00</u> |



SCHEDULE C

CHARGES FOR SPECIAL SERVICES
(Continued)

**F. FLOW-RESTRICTOR INSTALLATION
(Continued)**

2. All others -

The charges for installing flow-restricting devices on water services, other than those in the above schedule, shall be the actual cost of installing the device, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

G. NOTICE OF WASTEFUL USE AND FLOW-RESTRICTOR CHARGES

For the purposes of Sections E and F above, written notification shall:

1. Specify the date by which excessive use must be curtailed to avoid further enforcement action; and
2. Be sent by certified mail (return receipt requested) or by other written means which would be sufficient for obtaining personal service in a legal proceeding.

H. RESCINDED 12/10/96

I. ~~COMMERCIAL~~ BACKFLOW DEVICE ANNUAL CERTIFICATION CHARGE

Where it is probable that a pollutant, contaminant, system or plumbing hazard may be created by a water user, or where the water system is unstable and cross-connections may be installed or reinstalled, an approved backflow prevention device of the proper type is required for all [premises except for conforming single-family premises](#) ~~commercial accounts~~ at the customer's expense. [See Section 26 of the District's Regulations Governing Water Service.](#)

1. The charge for administering the Backflow Program
Certification for ~~commercial~~all specified accounts
(annually).....~~\$53.00~~\$54.00
2. The charge for District staff to conduct a *Change of Responsible Party* or *Change of Use Survey* or to respond to a commercial customer's request for a backflow/cross connection survey, an initial or follow-up backflow inspection.....~~\$120.00/hr.~~\$124.00/hr.
3. The charge for backflow testers to be placed on the District's list of certified testers.....~~\$148.00~~\$151.00



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE C

**CHARGES FOR SPECIAL SERVICES
(Continued)**

J. ~~COMMERCIAL~~ BACKFLOW DEVICE VIOLATION

For those customers where the service has been terminated for failure to meet the District's Backflow Program requirements, a charge will be made to cover the District's costs pursuant to the termination and restoration of service.....

~~\$470.00~~ \$479.00

K. LATE PAYMENT PENALTY AND INTEREST

For those customers with outstanding overdue balances exceeding \$10 at billing, a charge equivalent to 1.5% of the overdue balance (minimum charge \$1) will be made to recover foregone interest on District money, and the District's costs to process overdue accounts. Customers in the Customer Assistance Program shall be exempt from the late payment penalty and interest.

L. PROCESSING FEE FOR INTERVENING WATER SERVICE AGREEMENT

The charge for the District to process an intervening water service agreement for a participating landlord in the District's automated landlord sign-on service is.....\$55.00

Requests to modify intervening water service agreement property account information must be submitted in writing and can be dropped off, mailed or faxed to a District business office.

The charge for each written request to modify the original intervening water service agreement by adding to or deleting property account information from the original agreement is.....\$55.00

M. SERVICE TRIP CHARGE

The charge for District staff to perform special services for customers is.....~~\$45.00~~ \$46.00

The charge shall be applied for, but is not limited to the following:

1. payment collection in the field;
2. payment extension in the field;
3. additional field stops beyond the initial service interruption to shut off service due to non-payment, including a field stop to lock the meter if the customer self-restores water service prior to making payment;
4. follow-up site visits to customers who have not complied after the District's notification to correct an obstructed meter condition; and
5. field inspections conducted at the customer's request.



SCHEDULE C

CHARGES FOR SPECIAL SERVICES
(Continued)

N. PUBLIC HYDRANT METER ACCOUNT ESTABLISHMENT CHARGES

Customers can request a 3-inch hydrant meter that can be hooked up to a public fire hydrant to measure water use at a property site. Customers are required to: 1) provide hydrant meter readings every two months, within 2 weeks of the meter read due date; 2) return hydrant meter equipment within one month following a meter use period; and 3) renew the hydrant meter permit and exchange the hydrant meter equipment within eleven months from the date of issuance, if continued use is desired.

The charge to establish water service
for a hydrant meter is.....~~\$109.00~~\$111.00

The charge to renew a hydrant meter account
at the end of a 12-month period is.....~~\$109.00~~\$111.00

If a field stop is required to establish a new account, a \$217 site visit charge shall be paid in addition to the \$109 account establishment charge. (See Section O.)

O. PUBLIC HYDRANT METER ACCOUNT SITE VISIT CHARGE

The charge for a Field Services Representative to conduct a hydrant
meter site visit to perform special services for customers is.....~~\$217.00~~\$222.00

The charge shall be applied for, but is not limited to the following:

1. reading hydrant meters for which the two-month reading was not submitted by the customer;
2. retrieving hydrant meter equipment from a customer site;
3. delivering hydrant meter equipment to a customer; and
4. establishing or renewing a hydrant meter account in the field.

Schedule H

Standard Participation Charge

FY18



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SCHEDULE H

**STANDARD PARTICIPATION CHARGE
(SPC)**

A. The Standard Participation Charge for each standard service installed shall be:

Standard Participation Charge

Meter Size	Gravity Zone ¹	Pumped Zone ²
5/8" and 3/4"	\$7,840 <u>\$8,560</u>	\$9,820 <u>\$10,620</u>
1"	19,600 <u>21,400</u>	24,560 <u>26,550</u>
1-1/2"	39,200 <u>42,800</u>	49,100 <u>53,100</u>
2"	62,700 <u>68,500</u>	78,600 <u>84,900</u>
3"	125,400 <u>136,900</u>	157,200 <u>169,900</u>
4"	196,000 <u>214,000</u>	245,600 <u>265,500</u>

The Standard Participation Charge for each meter larger than four inches shall be determined on a case-by-case basis by the District, considering such factors as the projected demand which the service would impose on the District system, the maximum intermittent flow rate of the meter compared to a 5/8" meter, and whether the service is solely domestic or is combined with a fire service. In no event shall the standard participation charge for a meter larger than four inches be less than ~~\$196,000~~ \$214,000 in gravity zones or ~~\$245,600~~ \$265,500 in pumped zones.

¹This charge covers general water main oversizing and future water supply.

²This charge covers major facilities capacity, water main oversizing and future water supply.

Schedule J

System Capacity Charge

FY18



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SCHEDULE J

SYSTEM CAPACITY CHARGE (SCC)

A. SCC FOR STANDARD SERVICE¹

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	REGION					
	1		2		3	
5/8	\$23,920	<u>\$25,040</u>	\$43,160	<u>\$45,080</u>	\$39,930	<u>\$41,780</u>
3/4	35,880	<u>37,560</u>	64,740	<u>67,620</u>	59,900	<u>62,670</u>
1	59,920	<u>62,730</u>	108,120	<u>112,930</u>	100,030	<u>104,660</u>
1-1/2	119,840	<u>125,460</u>	216,240	<u>225,860</u>	200,060	<u>209,320</u>

For service connections with larger meters see Sec. 3.

2. Single Family Service Connections (SCC)² (dollars per connection)

METER SIZE (INCHES)	REGION ³					
	1		2		3	
3/4	\$16,740	<u>\$17,530</u>	\$29,040	<u>\$30,340</u>	\$37,050	<u>\$38,770</u>
1	27,960	<u>29,280</u>	48,500	<u>50,670</u>	61,870	<u>64,750</u>
1-1/2	55,920	<u>58,560</u>	97,000	<u>101,340</u>	123,740	<u>129,500</u>

For service connections with larger meters see Sec. 3 below.

¹This charge covers the cost of System-wide Facilities Buy-in, Regional Facilities Buy-in and Future Water Supply.

²The SCC charged to the applicant will be based on the water meter size required to meet the indoor needs (excluding private fire service needs) and outdoor watering needs of the premises as determined solely by the District based on the plumbing code, the District's review, and water industry standards. The meter(s) that is installed may be larger than the meter size charged in the SCC fee if the service is combined with a private fire service or if a separate irrigation meter is required (See Sections D. Combined Standard and Fire Service and I. Required Separate Irrigation Meter for Single Family Premises Service Connections).

³ REGION	GENERAL DESCRIPTION
1	Central Area (gravity zones West-of-Hills) El Sobrante and North (pumped zones)
2	South of El Sobrante to vicinity of Highway 24 (pumped zone) South from vicinity of Highway 24 (pumped zones) Castro Valley Area (pumped zones) North Oakland Hill Area (pumped zones, formerly 4A)
3	Orinda-Moraga-Lafayette Area (pumped zones) San Ramon Valley and Walnut Creek (pumped and gravity zones)



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SCHEDULE J

**SYSTEM CAPACITY CHARGE
(SCC)
(Continued)**

3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same unit charge and criteria as apply to the SCC for smaller meters. The SCC will be calculated based on the unit charges for each of the four components listed below:

Component	Unit Charge (\$/100 gpd)	
Post-2000 (Add'l Regions 3C & 3D only)	SCC Region Specific	
Regional Facilities Buy-in	SCC Region Specific	
System-wide Facilities Buy-in	\$2,032	<u>\$2,109</u>
Future Water Supply ¹	1,920	<u>2,046</u>

The unit charges for the components that are specific to a SCC Region are:

		Unit Charge (\$/100gpd)	
Region	Post-2000 Component	Regional Facilities Buy-In Component	
1	n/a	\$2,027	<u>\$2,104</u>
2	n/a	4,115	<u>4,272</u>
3	n/a	2,436	<u>2,529</u>
3C	\$6,720	<u>\$6,960</u>	1,828
3D	6,720	<u>6,960</u>	1,828

In no instance will the SCC for a meter larger than 1-1/2 inches be less than the 1-1/2 inch price from the appropriate Section 1 or 2, above.

The SCC will be determined by multiplying the sum of the unit charge of the four components by the water use information furnished by the applicant, rounded to three significant places.

If the District has determined, based on water use information furnished, that a meter larger than 1-1/2 inches is appropriate, the SCC calculated pursuant to this subdivision shall apply irrespective of the arrangement of water metering or meter size at the premises.

¹The Future Water Supply component for Region 3C is based on 1993 agreement (see Section B1).



SCHEDULE J

SYSTEM CAPACITY CHARGE
(SCC)
(Continued)

4. SCC for Standard Service to Multi-Family Premises

The System Capacity Charge for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, "multi-family premises" shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service, ~~provided that each separate dwelling unit of a multi-family premises shall be separately metered as specified in Sections 2 and 3 of the District's Regulations Governing Water Service.~~

Multi-Family Premises Dollars per Dwelling Unit (DU)					
REGION ¹					
	1	2	3		
For each Dwelling Unit	\$9,750	<u>\$10,200</u>	\$13,550	<u>\$14,160</u>	\$12,710 <u>\$13,300</u>

¹Same regions as described in A.2.

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and areas designated for public use. The SCC shall be based on meter size as provided under A.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.



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SCHEDULE J

**SYSTEM CAPACITY CHARGE
(SCC)
(Continued)**

B. SEPARATE SCC FOR STANDARD SERVICE FOR ADDITIONAL REGIONS¹

The System Capacity Charge for non-residential and single family residential water service at premises other than multi-family premises shall be as follows (dollars per connection):

1. Non-residential water service at premises other than multi-family premises shall be as follows (dollars per connections)

METER SIZE (INCHES)	3C ³	ADDITIONAL REGION ²	
		3-D	
5/8	n/a	\$96,870	<u>\$100,850</u>
3/4	n/a	145,340	<u>151,280</u>
1	n/a	242,670	<u>252,640</u>
1-1/2	n/a	485,340	<u>505,280</u>

For service connections with larger meters see Sec. 3 below.

2. Single-Family service connections shall be as follows (dollars per connections)

METER SIZE (INCHES)	3C ³	ADDITIONAL REGION ²	
		3-D	
3/4	\$86,590	<u>\$89,640</u>	\$96,870 <u>\$100,850</u>
1	144,610	<u>149,700</u>	161,770 <u>168,420</u>
1-1/2	289,220	<u>299,400</u>	323,540 <u>336,840</u>

For service connections with larger meters see Sec. 3 below.

¹This charge covers the cost of System-wide Facilities Buy-In, Regional Facilities Buy-In and Future Water Supply. The Additional Regions are low-density, residential in nature. It is not anticipated that meters larger than ¾ -inch (excluding fire flow requirements) will be installed in these Regions.

²ADDITIONAL REGION GENERAL DESCRIPTION
3-C South of Norris Canyon Road (pumped zones)
3-D South of Norris Canyon Road outside Wiedemann Ranch (pumped zone)

³The Future Water Supply component of the SCC for Region 3C is set by the July 20, 1993 Wiedemann Agreement, indexed to the U.S. City Average of the Consumer Price Index and used by EBMUD to fund conservation programs. The total Future Water Supply component of the SCC for the common areas in Region 3C shall be paid as a condition for the issuance of the first water meter for the common area. The SCC for Non-Residential services (e.g., common area irrigation) shall be uniquely calculated in accordance with the Wiedemann Agreement.



SCHEDULE J

SYSTEM CAPACITY CHARGE
(SCC)
(Continued)

B. SEPARATE SCC FOR STANDARD SERVICE FOR ADDITIONAL REGIONS¹ (Continued)

3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same cost components and criteria as apply to the SCC for smaller meters. (See Section A.3)

4. Separate SCC for Standard Service to Multi-Family Premises

The System Capacity Charge for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, "multi-family premises" shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service. ~~provided that each separate dwelling unit of a multi-family premises shall be separately metered as specified in Sections 2 and 3 of the District's Regulations Governing Water Service.~~

Multi-Family Premises Dollars per Dwelling Unit				
ADDITIONAL REGIONS ¹				
	3-C		3-D	
For each Dwelling Unit	\$33,410	<u>\$34,580</u>	\$34,000	<u>\$35,390</u>

¹Same regions as described in B.1.



SCHEDULE J

**SYSTEM CAPACITY CHARGE
(SCC)
(Continued)**

B. SEPARATE SCC FOR STANDARD SERVICE FOR ADDITIONAL REGIONS¹ (Continued)

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and do not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and areas designated for public use. The SCC shall be based on meter size as provided under B.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

C. LOW-PRESSURE SERVICE

Where a larger meter is installed because of low-pressure conditions, the applicable System Capacity Charge shall be determined on the basis of the size of the meter which would be required for a standard service as determined by the District based on plumbing code and water industry standards. All other rates and charges shall be based on actual meter size.

D. COMBINATION STANDARD AND FIRE SERVICE

Where a meter is installed to provide both standard service and a supply to a private fire protection system, at other than multi-family premises, the applicable System Capacity Charge shall be based on the meter size required for standard service exclusive of the capacity for supplying the fire protection system as determined by the District based on plumbing code, fire protection code and water industry standards. The installation charges shown in Schedule D and all other rates and charges pertaining to the service shall be based on the actual size of the meter that is installed.

E. FIRE SERVICES AND STANDBY SERVICES

For fire services and standby services (additional service connections for security of supply), there shall be no System Capacity Charges.

¹Same regions as described in B.1.



SCHEDULE J

SYSTEM CAPACITY CHARGE
(SCC)
(Continued)

F. ADDITIONAL WATER USE ON PREMISES RECEIVING SERVICE

The System Capacity Charge applicable to enlargement of an existing service at other than multi-family premises shall be based on the difference in the SCC for the new service size and the existing service size.

If additional dwelling units are constructed on premises subsequent to the installation of service and payment of an SCC under B.1, then the SCC applicable to each additional dwelling unit shall be immediately due and payable.

G. CREDIT FOR EXISTING SERVICES

Where one or more new services will replace one or more existing or prior services to a premises where an SCC was paid to initiate the water service, a credit will be given toward the new SCC based on the customer classification, meter size or water use information that was used to calculate the initial SCC payment (see Section A – SCC for Standard Service). For instances where the existing or prior services were installed prior to 1983 and no SCC was paid, the SCC credit for meter sizes under 2" will be based on Sections A.1 and A.2 - SCC for Standard Service. For existing or prior services with meter sizes 2" and greater where no SCC was paid, the annual average of the past ten years of water consumption will be used to determine the SCC credit, but in no instance will the credit be less than that of a 1.5" meter size for the customer classification listed in Sections A.1 and A.2 – SCC for Standard Service. No SCC credit will be given unless prior service to the premises is verified. If the SCC is paid with the service connection to be completed by meter installation at a later date, and existing service(s) are to remain in service until that time, the applicable credit for the existing service(s) will be in the form of a refund when the existing services are removed. The SCC credit cannot be applied to a standby meter, fire service meter, or in the case of a combination standard and fire service meter, the portion of the meter oversized for the private fire protection system. Where the initial SCC payment was made under Schedule J Section I Required Separate Irrigation Meter for Single Family Premises Service Connections, the SCC credit cannot be applied to the separate irrigation meter without a SCC credit on the residential meter. The SCC credit for an existing service can only be applied to the premises where the existing service is located. "Premises" is defined in the Section 1 of the District's Regulations Governing Water Service.

For common area meters installed under the July 20, 1993 Wiedemann Agreement, credit toward a new SCC for these meters will be based on the actual SCC payment for each meter installed, not based on the size of the existing meter.



SCHEDULE J

SYSTEM CAPACITY CHARGE (SCC) (Continued)

H. TEMPORARY CONSTRUCTION SERVICE

A System Capacity Charge paid on a temporary construction service will be refunded if said service is removed within a 1-year period after installation.

I. REQUIRED SEPARATE IRRIGATION METER FOR SINGLE FAMILY PREMISES~~SERVICE CONNECTIONS~~

If an irrigation meter is required for a single-family premises~~connection~~ because the landscape exceeds the threshold for a dedicated irrigation meter in Section 31 of the Regulations, two meters will be installed – one for the indoor and private fire service (if applicable) needs of the building and a separate meter dedicated for irrigation. One single-family premises SCC shall be applicable based on the hydraulic capacity needed to serve the irrigation and indoor needs. The hydraulic capacity of the installed meter or meters will be equal to or exceed the hydraulic capacity of the meter size that was charged in the SCC fee. The installation charges shown in Schedule D and all other rates and charges pertaining to the service(s) based on the actual size of the meter(s) that are installed shall apply.

J. NONPOTABLE WATER SERVICE

1. Nonpotable Water Service Connections (dollars per connection)

METER SIZE (INCHES)	REGION					
	1		2		3	
5/8	\$7,680	<u>\$8,180</u>	\$10,270	<u>\$10,950</u>	\$12,000	<u>\$12,790</u>
3/4	11,520	<u>12,280</u>	15,410	<u>16,420</u>	18,000	<u>19,180</u>
1	19,240	<u>20,500</u>	25,730	<u>27,420</u>	30,060	<u>32,030</u>
1-1/2	38,480	<u>41,000</u>	51,460	<u>54,840</u>	60,120	<u>64,070</u>

All SCC for nonpotable water service connections with meters larger than 1-1/2 inches shall be determined by applying the Future Water Supply Component unit charge to the defined projected water demand approved by the District. The SCC will not be less than the 1-1/2 inch meter charge from Section J.1, above.

K. DUAL STANDARD SERVICES

An SCC shall be applicable for separate meters installed to provide dual (potable and nonpotable) standard service, based on the meter size(s) for each service.



SCHEDULE J

**SYSTEM CAPACITY CHARGE
(SCC)
(Continued)**

L. ADJUSTMENT OF SCC FOR WATER-CONSERVING LANDSCAPING ON PUBLICLY OWNED PROPERTY

To further encourage water conservation, the SCC for a water service connection exclusively for irrigation of landscaping on property owned by a public agency may be reduced or not required based on long-term water service needs after an initial planting establishment period of not more than three years (the "initial period"); provided that (1) the landscape plan incorporates drought-tolerant and other low-water-use planting materials on a major part of the landscaped area, and (2) the long-term water need would result in replacement of the initial water meter with a smaller meter or water service would be discontinued and removed at the end of the initial period, as solely determined by the District.

A public agency applying for water service under such conditions shall submit a written request to the District prior to the time of payment of the SCC. The request shall set forth in detail the facts supporting an adjustment of the SCC, shall include information and plans clearly describing the planting materials and irrigation system, and shall include data and calculations clearly demonstrating the estimated initial and long-term water needs.

If the District determines that the SCC can be based on a smaller meter or discontinuation of service after the initial period, the public agency shall enter into a water service agreement which provides for (1) payment of the reduced SCC prior to installation of service; (2) verification of the long-term need at the end of the period; and (3) payment of the additional SCC required if the initial meter is not to be replaced, or the replacement meter is larger than initially determined, or water service is not discontinued and removed. If additional SCC payment is required, it shall be based on the charges in effect at the time of initial SCC payment, and shall be due and payable within 30 days of written notice from the District. The agreement shall be binding upon all subsequent owners of the property and shall be recorded.

Installation charges for the service connection shall be based on the meter size initially installed.

The above-mentioned SCC adjustments do not apply to nonpotable water service accounts.

Schedule L

Drought Surcharge Rate Schedule for Water Service

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SCHEDULE L

DROUGHT SURCHARGE RATE SCHEDULE FOR WATER SERVICE

The rates for the Water Flow Charge shown in Schedule A may be increased up to the following maximum percentages~~amounts will be charged in addition to rates shown in Schedule A for all water delivered~~ during the specified declared drought stage~~, for billing cycles that are billed on or after July 1, 2016.~~

A TEMPORARY SURCHARGE FOR POTABLE WATER DELIVERED based on one month or two months of meter readings for all water delivered ~~per 100 cu. ft. as a percentage of the total Water Flow Charge on customer bills:~~

MONTHLY DROUGHT SURCHARGES <u>ON TOTAL</u> WATER FLOW CHARGE <u>FOR WATER DELIVERED</u> PER 100 CU. FT.				
	Maximum Applicable Drought Surcharge <u>Percentage</u> ¹ in 4 Stages			
Single-Family Residential Accounts	<u>Stage 1</u>	<u>Stage 2</u>	<u>Stage 3</u>	<u>Stage 4</u>
<u>All potable water flow charges</u>	<u>0%</u>	<u>8%</u>	<u>20%</u>	<u>25%</u>
For the first 172 gpd	\$0.00	\$0.23	\$0.59	\$0.73
For all water used in excess of 172 gpd, up to 393 gpd	0.00	0.34	0.79	0.99
For all water used in excess of 393 gpd	0.00	0.40	1.03	1.30
Multi-Family Residential	0.00	0.32	0.84	1.02
All Other Accounts	0.00	0.32	0.84	1.04



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE L

DROUGHT SURCHARGE RATE SCHEDULE FOR WATER SERVICE
(Continued)

¹Drought surcharge percentage increase will be applied to the applicable rate of the customer's potable Water Flow Charge from Schedule A Rate Schedule for Water Service. Prior to implementing the drought surcharges, the District will update drought related costs and develop surcharges based on the updated cost of service. Any surcharges that are imposed will be consistent with the District's staged system of drought surcharges and will not exceed the drought surcharge percentages listed in this Schedule.

Schedule M

Water Service Estimate Application Fees

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SCHEDULE M

**RATE SCHEDULE FOR WATER SERVICE ESTIMATE, WITH MAIN EXTENSION
FIRE SERVICE REQUEST, HYDRANT ESTIMATE, FIRE SERVICE ESTIMATE,
STANDARD SERVICE GREATER THAN 2-INCH,
CONDITIONAL SERVICE WITHOUT MAIN EXTENSION AND
PIPELINE RELOCATION/REPLACEMENT/ABANDONMENT APPLICATION FEE**

This schedule applies to Water Service Estimates with Main Extensions, Fire Service Requests that require hydraulic modeling, Hydrant Estimates, Fire Service Estimates, Standard Services greater than 2 inches, Conditional Services without Main Extensions and Pipeline Relocations/Replacements/Abandonments.

A. SCHEDULE OF CHARGES

**1. WATER SERVICE ESTIMATES REQUIRING MAIN EXTENSIONS FOR
RESIDENTIAL DEVELOPMENT: BASED ON NUMBER OF DWELLING
UNITS**

Basic charge for up to 10 units \$2,484.00

Each additional increment of 10 units or portion
thereof up to 200 units 663.00

Over 200 units (including Basic charge) 14,612.00

**2. WATER SERVICE ESTIMATES REQUIRING MAIN EXTENSIONS FOR
COMMERCIAL, INDUSTRIAL, OR INSTITUTIONAL: BASED ON TOTAL
SQUARE FOOTAGE OF THE STRUCTURE(S)**

Basic charge for up to 10,000 square feet \$3,946.00

Each additional increment of 10,000 square feet
or portion thereof up to 100,000 square feet 664.00

Over 100,000 square feet (including Basic
charge) 9,863.00

**3. CONDITIONAL SERVICES WITH NO MAIN
EXTENSION**

Fixed price \$1,463.00



SCHEDULE M

RATE SCHEDULE FOR WATER SERVICE ESTIMATE APPLICATION FEE
(Continued)

A. SCHEDULE OF CHARGES (Continued)

4. FIRE SERVICE REQUEST (with hydraulic modeling), FIRE SERVICE ESTIMATE, HYDRANT ESTIMATE, STANDARD SERVICE GREATER THAN 1-1/2-INCH, DUAL SERVICE (COMBINATION STANDARD AND FIRE SERVICE) ESTIMATE

Fixed price \$369.00

5. PIPELINE RELOCATIONS/REPLACEMENTS/ABANDONMENTS

Fixed price \$1,463.00

B. CONDITIONS OF APPLICATION FEE

1. The fee is non-refundable.
2. The fee will not be used as a credit towards installation charges or for future estimates.
3. If preparation of a new Water Service Estimate is required due to changes in project scope requested by the applicant after the receipt of the Estimate Agreement or due to cancellation, then a new water service application with an additional fee will be required. The previous fee will be forfeited.
4. If more than one estimate or type of estimate is required for a single application, only the higher fee will be assessed.

Schedule N

Water Demand Mitigation Fees

FY18



SCHEDULE N

WATER DEMAND MITIGATION FEES

The Water Demand Mitigation Fee funds District conservation programs that are intended to achieve water savings that offset water demand from development within the territory or development where the fees are collected. The Water Demand Mitigation Fee is payable at the time application for service is made or prior to release of the distribution system pipelines and related appurtenances when the installation of water main extensions are required.

A. WATER DEMAND MITIGATION FEES FOR "THE MEADOWS" TERRITORY

For service connections within "The Meadows" territory¹ payment of a Water Demand Mitigation Fee shall be required in addition to all other applicable fees and charges, including the applicable System Capacity Charge (SCC).

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE MEADOWS TERRITORY	
5/8	\$13,080	<u>\$13,940</u>
3/4	18,840	<u>20,070</u>
1	29,300	<u>31,220</u>
1-1/2	56,510	<u>60,210</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE MEADOWS TERRITORY	
5/8	\$12,810	<u>\$13,650</u>
3/4	18,840	<u>20,070</u>
1	29,300	<u>31,220</u>
1-1/2	56,510	<u>60,210</u>

¹ As defined in Contra Costa Local Agency Formation Commission Resolution No. 96-33, adopted August 13, 1997.



SCHEDULE N

WATER DEMAND MITIGATION FEES
(Continued)

3. The Water Demand Mitigation Fee for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.09) established by the Board of Directors for smaller meters.
4. For phased developments within The Meadows territory, the Water Demand Mitigation Fee is payable for all connections within the phase prior to release of the distribution system pipelines and related appurtenances.

B. WATER DEMAND MITIGATION FEES FOR "THE WENDT RANCH" TERRITORY

For service connections within "The Wendt Ranch" territory² payment of a Water Demand Mitigation Fee shall be required in addition to all other applicable fees and charges, including the applicable System Capacity Charge (SCC).

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE WENDT RANCH TERRITORY	
5/8	\$16,800	<u>\$17,900</u>
3/4	24,190	<u>25,780</u>
1	37,630	<u>40,100</u>
1-1/2	72,580	<u>77,340</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE WENDT RANCH TERRITORY	
5/8	\$16,450	<u>\$17,530</u>
3/4	24,190	<u>25,780</u>
1	37,630	<u>40,100</u>
1-1/2	72,580	<u>77,340</u>

² As defined in Contra Costa Local Agency Formation Commission Resolution 97-5, adopted March 12, 1997.



SCHEDULE N

WATER DEMAND MITIGATION FEES
(Continued)

3. The Water Demand Mitigation Fee for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.40) established by the Board of Directors for smaller meters.
4. For phased developments within The Wendt Ranch territory, the Water Demand Mitigation Fee is payable for all connections within the phase prior to release of the distribution system pipelines and related appurtenances.

C. WATER USE OFFSET FEES FOR THE WIEDEMANN RANCH DEVELOPMENT³

For service connections within "The Wiedemann Ranch Development", payment of a Water Use Offset Fee shall be required in addition to all other applicable fees and charges, including the System Capacity Charge (SCC).⁴

1. Common Area Offset Fee

The total Water Use Offset Fee for common areas in The Wiedemann Ranch Development is ~~\$67,774~~\$69,468, and payable as a condition of issuance of the first meter for the common area.⁵

2. Single Family Service Connections

The Water Use Offset Fee for each residential lot in The Wiedemann Ranch Development is ~~\$6,765~~\$6,934, which amount shall be indexed using the same index as for the common area offset fee.

³The Wiedemann Ranch Development, SCC Region 3A, a 439 acre development in Contra Costa County, is described with particularity in Exhibit A to the July 20, 1993 Agreement Between EBMUD and HCV & Associates, Ltd., Wiedemann Ranch, Inc. and Sue Christensen ("Wiedemann Agreement").

⁴The Wiedemann Agreement specifies the amount and other terms related to the Future Water Supply Component of the SCC for the Wiedemann Ranch Development.

⁵The Water Use Offset Fee shall be indexed to the U.S. City Average of the Consumer Price Index issued by the U.S. Department of Labor for each calendar year or portion thereof from the July 20, 1993 date of the Wiedemann Agreement to the date of payment of the offset fee.



SCHEDULE N

WATER DEMAND MITIGATION FEES
(Continued)

**D. ADDITIONAL WATER USE OFFSET FEES FOR THE WIEDEMANN RANCH
DEVELOPMENT⁶**

For water service within The Wiedemann Ranch Development, payment of Additional Water Use Offset Fees shall be required in the event the annual water budget⁷ is exceeded.

1. The Additional Water Use Offset Fee shall be determined by the number of gallons of water used during the average of the two consecutive years in excess of the annual water budget times the per gallon fee of ~~\$14.60~~ \$14.97.⁸

⁶The Wiedemann Ranch Development, SCC Region 3A, a 439 acre development in Contra Costa County, is described with particularity in Exhibit A to the July 20, 1993 Agreement Between EBMUD and HCV & Associates, Ltd., Wiedemann Ranch, Inc. and Sue Christensen ("Wiedemann Agreement").

⁷The Wiedemann Agreement specifies the formula for calculating the annual water budget and the specific methodology for calculating and collecting the additional water use offset fee.

⁸The Wiedemann Agreement specifies the terms related to the Additional Water Use Offset Fee. The Additional Water Use Offset Fee shall be indexed to the U.S. City Average of the Consumer Price Index issued by the U.S. Department of Labor for each calendar year or portion thereof from the July 20, 1993 date of the Wiedemann Agreement to the date of payment of the additional water use offset fee.



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SCHEDULE N

**WATER DEMAND MITIGATION FEES
(Continued)**

E. WATER DEMAND MITIGATION FEES FOR CAMINO TASSAJARA INTEGRATED PROJECT⁹

For service connections within the Camino Tassajara Integrated Project¹⁰, payment of a Water Demand Mitigation Fee (WDMF) shall be required in addition to all other applicable fees and charges including the applicable System Capacity Charge (SCC). The Board of Directors adopted Section 3D to the Water Service Regulations in January 2003 to codify the WDMF and other conservation requirements imposed on the project territory by the County and Local Agency Formation Commission.

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE CAMINO TASSAJARA INTEGRATED PROJECT	
5/8	\$16,190	<u>\$17,260</u>
3/4	-23,330	<u>24,860</u>
1	-36,280	<u>38,660</u>
1-1/2	-69,970	<u>74,560</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE CAMINO TASSAJARA INTEGRATED PROJECT	
5/8	\$11,130	<u>\$11,860</u>
3/4	-16,350	<u>17,420</u>
1	-25,470	<u>27,140</u>
1-1/2	-49,080	<u>52,300</u>

⁹ The Water Demand Mitigation Fee shall be indexed to the unit charge of the Future Water Supply component of the EBMUD System Capacity Charge.

¹⁰ As generally described in the October 9, 2002 Miscellaneous Work Agreement between the District, Shapell Industries, Ponderosa Homes II, and Braddock and Logan Group II.



SCHEDULE N

WATER DEMAND MITIGATION FEES
(Continued)

3. The WDMF for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.61) established by the Board of Directors for smaller meters.

The WDMF for new water service at multi-family premises shall be as listed below. For purposes of this Schedule N, "multi-family premises" shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service, provided that each separate dwelling unit of a multi-family premises shall be separately metered as specified in Sections 2 and 3 of the District's Regulations Governing Water Service.

Multi-Family Premises – Dollars Per Dwelling Unit (DU)

Each of the first 10 DU in a single structure	\$6,680	<u>\$7,120</u>
Each additional DU in same structure	5,340	<u>5,690</u>

The above WDMF shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises.

No additional WDMF shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

A WDMF shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, recreational facilities, and areas designated for public use. The WDMF shall be based on meter size as provided under E.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable WDMF, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.



SCHEDULE N

WATER DEMAND MITIGATION FEES
(Continued)

4. The WDMF is payable for all connections within phased developments prior to release for construction, the distribution system pipelines and related appurtenances.
5. Water use in excess of 120 percent of the annual water budget¹¹ shall be subject to an Additional WDMF (on a per-occurrence basis). The Additional WDMF shall be determined by multiplying the amount of water used in excess of 100 percent of the annual water budget times the per gallon fee of ~~\$1.03~~ \$1.10 per gpd.

¹¹The water budget shall be established pursuant to the October 9, 2002 Miscellaneous Work Agreement referenced in Footnote 2.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

PAGE NUMBER

14-H

EFFECTIVE

~~08/15/16~~

08/14/17

SCHEDULE N

**WATER DEMAND MITIGATION FEES
(Continued)**

**F. WATER DEMAND MITIGATION FEES FOR GALE RANCH PHASE 2,
SUBDIVISION 9134¹²**

For service connections within Gale Ranch Phase 2, Subdivision 9134, payment of a Water Demand Mitigation Fee (WDMF) shall be required in addition to all other applicable fees and charges including the applicable System Capacity Charge (SCC).

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE GALE RANCH PHASE 2 SUBDIVISION 9134	
5/8	\$15,520	<u>\$16,530</u>
3/4	22,350	<u>23,810</u>
1	34,740	<u>37,020</u>
1-1/2	67,040	<u>71,440</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE GALE RANCH PHASE 2 SUBDIVISION 9134	
5/8 ¹³	\$10,650	<u>\$11,350</u>
3/4	15,670	<u>16,700</u>
1	24,360	<u>25,950</u>
1-1/2	46,980	<u>50,060</u>

¹² The Water Demand Mitigation Fee shall be indexed to the unit charge of the Future Water Supply component of the EBMUD System Capacity Charge.

¹³ 5/8" fee based on 32,594 gpd demand LUDS demand minus 10,884 gpd middle school demand credit divided by 63 residential units resulting in 345 gpd/residential unit.



SCHEDULE N

**WATER DEMAND MITIGATION FEES
(Continued)**

3. The WDMF for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component.

No additional WDMF shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

A WDMF shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, recreational facilities, and areas designated for public use. The WDMF shall be based on meter size as provided under F.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable WDMF, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

Section 1

Explanation of Terms Used in These Regulations

FY18



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS

~~COMMERCIAL/INDUSTRIAL UNIT shall mean an attached or detached rental or owner-occupied unit used directly or indirectly in connection with any non-residential, business undertaking, as solely determined by the District, which provides complete independent facilities for one or more persons, including permanent provisions for sanitation, and separate ingress/egress.~~

~~DEDICATED IRRIGATION METER shall mean the entire meter assembly dedicated for outdoor landscape water use, which may include appurtenances or devices owned and installed by the District or applicant, as solely determined by the District, in connection with new service installations as provided in Sections 3 and 31 of these regulations.~~

DISTRICT shall refer to the East Bay Municipal Utility District unless otherwise specified.

~~DWELLING UNIT shall mean an attached or detached residential unit of a multi-family premise, as solely determined by the District, which provides complete independent living facilities including permanent provisions for living, sleeping, cooking, sanitation, and separate ingress/egress for one or more persons.~~

ELEVATION SURCHARGE shall mean that charge applied to customers' accounts where meters are served by pressure zones with an elevation designator of two (2) or more in the District's pressure zone designations. The charge shall be computed in accordance with Schedule A, Rate Schedule for Water Service, Section D. The Elevation Surcharge is a means of allocating the additional costs incurred for pumping and storing water at higher elevations.

EXPANDED SERVICE shall refer to any upgrade, change, ~~or~~ modification to existing standard service that increases the size of the meter, or increases to the annual average water use resulting from improvements to the existing structure(s) and new construction.

FRONT FOOT CHARGE shall mean the charge applicable to a premises when a main is or has been brought to the principal frontage of the premises to make service available to the premises. This charge shall be computed in accordance with the provisions of Section 4, and shall generally be the proration of the cost of extending the main based on the width of the premises fronting on and entitled to service from the main extension. The front foot charge shall not apply to premises already entitled to service, according to District requirements, on or before the date the main extension is installed. Where a front foot charge is applicable, it must be paid before a service will be installed.

IRRIGABLE LANDSCAPE AREA shall mean the parcel area less the aggregate area of structure footprints, impervious and pervious hardscape, and undisturbed open space.

IRRIGATED LANDSCAPING shall mean the total aggregated area or footprint of irrigated landscape for the entire property, which does not include open space or the non-irrigated area.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS (continued)

LIMITED SERVICE shall mean a water service connection provided under a written agreement for limited service with special conditions, when standard service is not reasonably available.

MAJOR FACILITIES shall mean storage reservoirs, pumping plants, transmission mains, filter plants, and appurtenances, including necessary properties and rights-of-way.

METER shall mean the entire meter assembly, which may include appurtenances or devices owned and installed by the District in connection with a service connection.

DEDICATED IRRIGATION METER shall mean the entire meter assembly dedicated for outdoor landscape water use, which may include appurtenances or devices owned and installed by the District or applicant, as solely determined by the District, as provided in Sections 3 and 31 of these Regulations.

MASTER METER shall mean the entire meter assembly dedicated for single service to a premises for water use, which may include appurtenances or devices owned and installed by the District upstream of any applicant installed and owned meters, as provided in Sections 2 and 3 of these Regulations.

~~MULTI-FAMILY PREMISES shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.~~

~~MULTI-OCCUPANCY COMMERCIAL/INDUSTRIAL PREMISES shall mean premises with two or more attached or separate commercial or industrial occupancy units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.~~

PREMISES shall mean a parcel of real estate, including any improvements thereon, which is determined by the District to be a single premises~~unit~~ for purposes of receiving, using and paying for service. In making this determination, the District shall take into consideration such factors as whether the ~~unit~~parcel could reasonably be subdivided, whether the ~~unit~~parcel is being used for a single enterprise, and whether the ~~unit~~parcel is divided by a public or a private street, but in any case the District's determination shall be final.

MULTI-FAMILY PREMISES shall mean premises designated for multi-family use by the local land use authority, with two or more attached or separate residential dwelling units, rental or owner occupied, which is determined by the District to be a single premises for receiving water service.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS (continued)

MULTI-OCCUPANCY COMMERCIAL/INDUSTRIAL PREMISES shall mean premises designated for commercial/industrial use by the local land use authority, with two or more attached or separate commercial or industrial occupancy units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

SINGLE FAMILY PREMISES shall mean a premises designated for single-family use by the local land authority, with one or more attached or separate structures, rental or owner-occupied, providing permanent provisions for living, cooking, sanitation, and separate ingress/egress. Accessory structures constructed within the same parcel of real estate shall be considered part of the single-family premises for the purpose of determining total water demand and System Capacity Charges, as solely determined by the District.

PRESSURE ZONE shall mean a portion of the water distribution system in which all premises are served through meters within a specific range of elevations and supplied by the same major facilities through an interconnected pipeline network. The upper limit of the pressure zone is 100 feet below the overflow elevation of the reservoir providing service, and the lower limit is determined by the upper limit of the next lower pressure zone or an elevation approximately 300 feet below the overflow elevation of the reservoir. Gravity Zones are those pressure zones which receive their water supply by gravity flow from the treatment plants and are identified by the prefixes "G" and "H" in the District's pressure zone designations. Pumped Zones are those pressure zones which receive their water supply from the treatment plants by pumping and are identified by the prefixes "A" through "F" in the District's pressure zone designations.

PRINCIPAL FRONTAGE shall mean that part of the perimeter of the major portion of the premises where the principal use of the property is located, which fronts on a public street or private road or driveway from which the premises generally receives access, public services and utilities, as determined by the District. Principal use does not include easements, rights-of-way, or a relatively narrow portion of a premises used for access or other purpose.

REASONABLY AVAILABLE SERVICE shall mean that a service connection installed at the principal frontage of the premises will provide adequate pressure and flow for normal operation of plumbing fixtures, water using appliances, requirements set by the responsible fire protection agency, and irrigation. In determining reasonably available service, the District will consider, relative to the service location and the applicable pressure zone, the elevation of the existing or proposed building on the premises, the distance of the building site from the meter location and any pressure and flow requirement for fire protection.

RETROFITS shall mean the conversion or modification of existing water using fixtures, appliances, equipment and landscaping such that they are suitable for water service.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS (continued)

SEPARATE STRUCTURE shall mean a distinct building with separate and/or shared walls, as solely determined by the District, without regard to common pathways, bridges, roof decks and overhangs, parking garages, foundations, and similar above-or-below-ground project features.

SERVICE shall mean the furnishing of water (potable or nonpotable) to a customer through a service connection.

SERVICE CONNECTION shall mean the necessary piping and equipment from the main to and including the meter or battery of meters. Reference to a service connection by size shall mean the size of the meter.

STANDARD PARTICIPATION CHARGE (SPC) shall mean the charge paid as a contribution towards the cost of future general oversizing of water mains and to provide major facilities capacity for service to new customers. This charge is paid in lieu of the System Capacity Charge by certain applicants who applied for service on or before June 28, 1983. The SPC also includes a component for the allocated cost of providing a future water supply to meet the long-term increase in water demand in the District.

STANDARD SERVICE shall mean a service other than a private fire service, installed within the District service area, adjacent to the principal frontage of the premises to be served, which service is for immediate use to supply a function directly related to such premises.

SYSTEM CAPACITY CHARGE (SCC) shall mean the charge required of all applicants for water service to premises where installation of a service connection is required, including expanded service~~enlargement of service~~, as solely determined by the District. The charge to be paid depends on the regional location and the applicable meter size, the estimated annual average water use as determined by the District for large meters not covered in Schedule J based on water use information furnished by the applicant, or number of ~~dwelling units and/or commercial/industrial~~ units. The charge is payment for the costs allocated to providing capacity for water service to applicants within each region, including components for major facilities in the District's distribution system master plan, major facilities constructed prior to the master plan, and water main oversizing. The SCC also includes a component for the allocated cost of providing a future water supply to meet the long term increase in water demand in the District. The charge shall be computed in accordance with Schedule J of the Rates and Charges.

UNIT shall mean and apply to a Dwelling Unit, Commercial/Industrial Unit, Live/Work Unit, or Work/Live Unit as defined below, unless specified otherwise.

DWELLING UNIT shall mean an attached or detached rental or owner-occupied residential unit of a multi-family premises, which provides complete independent living facilities for one or more persons, including one or more permanent provisions for living, sleeping, cooking, sanitation, and separate ingress/egress as solely determined by the District.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS
(continued)

COMMERCIAL/INDUSTRIAL UNIT shall mean an attached or detached rental or owner-occupied unit used directly or indirectly in connection with any non-residential, or business undertaking, which provides complete independent facilities for one or more persons, including one or more permanent provisions for sanitation, and separate ingress/egress as solely determined by the District.

LIVE/WORK UNIT shall be considered an attached or detached unit of a mixed-use premises that accommodates both residential and non-residential activities, but emphasizes the accommodation of residential activities per Local Land Use designation, as solely determined by the District. For the purpose of System Capacity Charges, a Live/Work Unit shall be considered as residential.

WORK/LIVE UNIT shall be considered an attached or detached unit of a mixed-use premises that accommodates both residential and non-residential activities, but emphasizes the accommodation of commercial activities per local land use designation, as solely determined by the District. For the purpose of System Capacity Charges, a Work/Live Unit shall be considered as non-residential.

WATER EFFICIENCY REQUIREMENTS shall mean ~~the water conservation~~all devices, technologies, and practices ~~as required by the District for service for each premise~~ in accordance with Section 31 of these Regulations. ~~Each customer shall be required to provide evidence through project design drawings or construction documents that water efficiency requirements have been met at time of application for service.~~

Section 2

Applying for Service

FY18



SECTION 2 APPLYING FOR SERVICE

If a service connection is already serving a premises, applicants applying for service shall contact the District's customer service center. If a new service connection is required, applications for service shall be submitted to the New Business Office of the District. The District's requirements for the type of service desired shall be met before an application will be approved (see Section 31 – Water Efficiency Requirements).

If standard service (see Section 3) is not reasonably available, or if the premises is outside of the District's boundaries, or if unusual conditions exist, the applicant will be advised of the terms and conditions that must be met before an application for service may be accepted. In determining whether the portion of an applicant's premises lying directly along a main constitutes principal frontage, the District's decision shall be final.

~~Effective January 1, 2009, e~~Each new dwelling unit or commercial/industrial unit in a new structure ~~of three stories in height or less shall be individually metered when the District has determined it is feasible to do so.~~ Individual meters shall be installed and owned by the District or applicant, as solely determined by the District. ~~The determination of feasibility is made by the District to meter each unit individually when reasonably possible to do so; the determination by the District is final.~~ When approved by the District, individual meters installed by an applicant shall meet the standards established by the District and applicable laws. Additional requirements for metering are contained in Sections ~~3~~ of these regulations.

Continuance of service is dependent on compliance with the District's regulations governing service, and on conditions at the location of the service remaining unchanged to the extent that they do not conflict with the District's requirements for obtaining service. Where a change in conditions at the location of the service makes a customer ineligible for continued service, the customer concerned shall be responsible for promptly notifying the District in writing of the change.

Applicants for service shall pay all applicable charges in full and in advance as provided in the Schedule of Rates and Charges, including the following:

- Account Establishment Charge
- Service Installation Charges
- Water Service Estimate Fee (if applicable)
- Water Main Extension Charges (if required)
- System Capacity Charge
- Charges for Annexation (if applicable)
- Wastewater Capacity Fee (if applicable)
- Any outstanding balance owed to the District (if applicable)



SECTION 2

APPLYING FOR SERVICE (continued)

Applicants shall provide all information determined by the District to be necessary to establish conditions at the location of service. This information may include, but is not be limited to:

- Property descriptions
- Improvement plans, including certification of subgrade elevation
- Information regarding soils and known contaminated soil conditions
- Environmental documentation
- Fire flow form signed by responsible fire agency
- Topographical map(s)
- Development and site plans with hydrant locations identified and signed by the responsible fire department (if applicable)
- Hydraulic calculations for proposed fire sprinkler system (if applicable)

AMORTIZATION OF CONNECTION AND INSTALLATION FEES

Applicants for service that satisfy the criteria set forth below may make written application to the District to amortize the payment of water service installation charges (Schedules D and E), water main extension charges (Schedule G), water system capacity charges (Schedule J) and wastewater capacity fees, pursuant to the following terms and conditions:

- The amount amortized shall be at least \$5,000 but not more than \$150,000.
- Applicant shall pay in advance a minimum of 25% of the estimated cost to provide the new service connection.
- Applicants shall enter into an agreement with the District which provides that:
 - a. amortized charges that shall be paid in equal installments over a maximum period of 24 months;
 - b. interest shall be applied to the balance due at a rate set by the Director of Finance;
 - c. water service may be terminated for failure to pay any installment when due;
 - d. repayment of the amortized charges shall be secured by real property owned by applicant and the District shall have the right of foreclosure by a power of sale;
 - e. applicant shall pay all escrow and title search costs incurred.
- Applicants shall execute deeds of trust which shall constitute a lien upon real property interests described therein, which property shall be situated in California and shall be sufficient to secure repayment of the amortized charges.

Applicant Criteria

- I. Applicants providing job training in District job skills.

In order to make application to amortized charges pursuant to this section, the applicant must:



SECTION 2

APPLYING FOR SERVICE (continued)

- a. make written application to the District for water service;
- b. have tax-exempt status under Internal Revenue Code section 501(c)3;
- c. provide job training, including job skills utilized in District job classifications, to unemployed individuals; and
- d. own and occupy the property for which water service application is made.

II. Applicants providing low income housing incorporating water conserving devices and landscaping.

To apply for amortized charges pursuant to this section, the applicant must:

- be organized solely for the purpose of constructing low income housing;
- provide evidence of eligibility for Community Development Block Grant (CDBG) assistance;
- own the property for which water service is requested;
- seek to amortize charges related to providing water service to a low-income housing project that:
 - i. is restricted to such use for at least 15 years or such other time specified or required by law; and
 - ii. will provide rental units for low-income residents or, if intended for ownership, will be owner-occupied units for low-income residents.
- incorporate water conservation features, beyond those required by law, into the design of the project and install and maintain water conserving landscaping approved by the District; and
- specify the cost benefit that will inure to residents of the project.

For purposes of this section, "housing" and "low-income housing" shall have the following meaning:

- Housing is defined to include rental housing, condominiums, cooperative housing, ownership housing, housing for families, senior housing, housing for physically and/or mentally disabled people, emergency shelters and shared housing.
- Low-income housing is defined as housing that is subsidized in whole or in part by one or more governmental agencies or foundations and that is rented or owned by individuals or families whose incomes are within ranges specified as low-income by the U.S. Department of Housing and Urban Development for Alameda and Contra Costa Counties.

III. In addition to the above criteria, applicants must make written application to the District for water service and provide evidence of tax-exempt status under Internal Revenue Code section 501(c)(3).

Section 3

Standard Service

FY18



SECTION 3

STANDARD SERVICE

SERVICE CONNECTION EXISTS AT TIME APPLICATION RECEIVED

A standard service may be granted where a complete service connection for the premises exists, there is no change in the use of the premises, the service has been active within the previous five years, there is no change in service size, and the District's requirements are met as stated in these regulations (see Section 2, Applying for Service and Section 31 – Water Efficiency Requirements). In such cases, if sufficient advance notice is furnished to the District, the service will be turned on at the meter on the date requested by the customer, except Saturdays, Sundays, and holidays.

All requirements established for the existing service connection shall remain in effect, including the requirement for a pressure regulator or backflow prevention device.

SERVICE CONNECTION DOES NOT EXIST AT TIME APPLICATION RECEIVED

When an application is received for a standard service to premises where a service connection does not exist, or the existing service connection is inadequate, as determined by the District, a standard service may be granted and installed provided the applicant meets the District's general requirements as stated elsewhere in these regulations, and:

1. Service is reasonably available at the premises to be served.
2. The size of the service connection is approved by the District.
3. The applicable District charges have been paid.
4. The applicant agrees to install a pressure regulator or backflow prevention device when required by the District.
5. There is an immediate need for water service to the premises.
6. The applicant agrees to meter the development as specifically approved by the District.

If service is not reasonably available or if unusual conditions exist, the applicant will be advised of the terms and conditions which must be met before an application for service will be accepted.

Additional requirements for nonpotable water service are included in Sections 30 and 31 of these regulations.



SECTION 3

STANDARD SERVICE (continued)

In circumstances under which the District anticipates unusual conditions, the applicant shall pay installation charges based on the District's estimate of the total cost of all materials, labor and other costs incidental to the installation. Unusual conditions shall exist when, in the sole determination of the District, the installation is to be made under conditions that would result in unusual or significant departure from the basic installation charges set forth in the Schedule of Rates and Charges to Customers. Such circumstances shall include, but not be limited to, the length of the lateral, the type of pavement, anticipated soil or other underground conditions, and the width or travel conditions of the roadway or right-of-way.

Water service will generally be made available by extending a main if the premises to be served does not have principal frontage on an existing water main of adequate flow and pressure (See Section 4). However, water service will not be provided by the extension of a water main where the meter(s) for the premises concerned will be located at an elevation of less than 100 feet below the overflow level of the reservoir supplying such main.

EXCEPTIONS

TEMPORARY CONSTRUCTION SERVICE

The District may grant a temporary construction service where it is expected that the service will be in use for a short period to serve a temporary operation not related to any particular premises. In such cases, the appropriate installation and system capacity charges set forth in the Schedule of Rates and Charges shall be paid in advance and billing at the current rate for a standard service shall apply.

INSTALLATION OF SERVICES CONNECTIONS IN NEW SUBDIVISIONS

Under special conditions the District may install a service connection without the meter in advance of actual need to avoid later cutting of pavement or for other reasons. In such cases, the appropriate installation charges set forth in the Schedule of Rates and Charges shall be paid in advance, but billing procedure shall not apply as the service will not be turned on until a standard service is required and approved by the District. The System Capacity Charge shall be paid in accordance with the provisions of Section 3B. If the service connection is not completed by a request for meter installation and turned on within one year of installation of the connection, the District may determine there is no immediate need for water service and may remove the service connection. Regardless of whether the service connection was removed, to establish service a new service application will be required under the Regulations and Schedule of Rates and Charges then in effect.



SECTION 3

STANDARD SERVICE (continued)

STREET LANDSCAPING SERVICE

The District may grant a street landscaping service for planting strips or areas which lie within public streets and are devoted to and maintained for landscaping and related purposes by the public agency having jurisdiction over the streets. In such cases, the planting strip or area may be considered a single unit for the purposes of receiving, using and paying for service regardless of its division or intersection by other public streets. The District shall approve the size and location of the service and the distance or area which may constitute a single unit. The appropriate installation and system capacity charge set forth in the Schedule of Rates and Charges shall be paid, and billing at the current rate for a standard service shall apply. Additional requirements for nonpotable and potable water service are contained in Sections 30 and 31 of these regulations.

COMBINATION STANDARD AND FIRE SERVICE

~~Effective January 1, 2011, t~~he California Building Code requires all newly constructed one-and-two-family homes and townhouses to install fire sprinkler systems. The District will grant one service to provide both standard service and a supply to a private fire protection system for each newly constructed single family premises or residential dwelling unit. A separate fire service connection is required for service to a private fire protection system at all other premises except the following:

1. New service or the enlargement of existing connections required for large area premises with public or private educational facilities and publicly-owned facilities served with combined standard and fire service.
2. Service to multi-family residential premises when a combination standard/fire service meter has been installed for each residential dwelling unit.
3. Service to group homes or group residential facilities when it is determined by the District that a combined service connection is acceptable for metering normal water use and is approved by the responsible fire protection agency.

Except for the System Capacity Charge as provided in Schedule J, the rates and charges pertaining to the service shall be based on actual meter size.



SECTION 3

STANDARD SERVICE (continued)

IRRIGATION METERING

~~A dedicated irrigation meter and detailed landscaping plans shall be required for all new (residential and nonresidential) irrigated landscaping covering an area of 5,000 square feet or more, as provided in Section 31 of these regulations.~~

BRANCH METERING

The District may grant two or more standard services from a single service connection for a premises other than a single-family premises if fire sprinklers are not required. The appropriate installation charge set forth in the Schedule of Rates and Charges shall be paid.

MASTER METERING

Each ~~separate~~ structure of a multi-family or multi-occupancy commercial/industrial premises shall be separately metered. The District may require each customer type in a new structure with more than one business classification to be metered by a master meter or individual meters for each ~~commercial/industrial unit and/or dwelling~~ unit consistent with Section 2 of these Regulations, as solely determined by the District.

The District may grant a single service to a premises with two or more ~~dwelling units and/or commercial/industrial~~ units such as a residential or commercial condominium project, provided the premises is determined to be a single business classification and all the following conditions are met:

1. The property to be served must be in single ownership, including streets containing the owner's water service pipelines. Where dwelling units are individually owned, the property surrounding the structures must be in single common ownership under a residents or homeowners association.
2. There must be a resident manager for the property who will be responsible for maintaining the private water system beyond the master meter and for payment of all water service charges.
3. The applicant must furnish a written statement from the fire district or other public agency with jurisdiction, indicating its acceptance of the proposed arrangement for providing fire flow, and that the liability for supplying water for fire protection rests solely with the property owner responsible for the private water system.
4. It has been determined by the District that District installed individual meters ~~sing-of for~~ for each unit is not feasible in accordance with Section 2 of these regulations



SECTION 3

STANDARD SERVICE (continued)

SERVICE CONNECTION NOT AT THE PRINCIPAL FRONTAGE

In certain unusual circumstances, the District may locate a conditional service connection for a premises at other than the principal frontage provided:

- service is reasonably available at that location,
- the principal frontage is on a private road or driveway,
- there is only one premises that would be so served,
- there is no apparent possibility of further extension to serve other premises,
- there is no requirement for a fire hydrant,
- a main extension for adjacent premises would not be required.

The owner(s) of the premises shall agree in writing to the conditions of service and to relocate the service and pay any applicable costs in the future, should standard service become available at the principal frontage. This agreement shall be a covenant against the premises to be served and shall run with the land, and will be recorded by the District.

SERVICE CONNECTION AT ALTERNATE MAJOR FRONTAGE

The District may locate the service connection for a premises at that part of the perimeter immediately adjacent to a street or road of general public access, where a water main exists or may be installed, even though it is not the normal vehicle access to the property and provided that the fire hydrant location in relation to the premises is acceptable to the responsible fire protection agency.

The District may locate the service connection(s) for a multi-family residential unit(s) or multi-occupancy commercial/industrial unit(s) at that part of the perimeter immediately adjacent to a street or road of general public access in a development where individual metering of all multi-family residential or multi-occupancy commercial/industrial unit(s) has been determined to be feasible in the sole discretion of the District in accordance with Section 2 of these Regulations.

Section 17

Change in Size of Service

FY18



SECTION 17

CHANGE IN SIZE OF SERVICE

Changes in the size of a standard service or replacement of a meter requested by the owner of the premises or required by the District will be made subject to the following provisions:

A. REDUCTION IN SIZE OF SERVICE

A requested change to a smaller size service must be approved by the District and will be made without charge to the applicant after the applicant has paid the installation charges as set forth in the Schedule of Rates and Charges. No System Capacity Charges will be assessed for reduction in size of service. The owner shall not be entitled to a refund of any portion of a System Capacity Charge paid for the larger meter.

B. INCREASE IN SIZE OF SERVICE

A requested increase in the size of a service must be approved by the District and will be made by the District after the applicant has paid the installation charges the difference between the installation and the System Capacity Charges of the new service size and the existing service size as set forth in the Schedule of Rates and Charges.

C. REPLACEMENT OR RELOCATION OF SERVICE LARGER THAN 1½ INCHES

A requested relocation of any meter larger than 1½ inches or replacement of any meter larger than 1½ inches with a meter of equivalent size must be approved by the District and will be made by the District after the applicant has paid the installation charges. If the relocation or replacement is in support of improvements to existing structures and/or new construction, the District will determine if the changes will result in an increase in the estimated annual average water usage for the premises, and will require payment of an additional System Capacity Charge for the increased usage as provided in the Schedule of Rates and Charges. The owner shall not be entitled to a refund of any portion of a System Capacity Charge paid for the original meter based on a resultant reduction in the water usage resulting from the changes.

If the customer's rate of consumption results in excessive wear of the meter or is such that the meter is unable to measure the flow of water accurately, the District may increase the size of the service and require payment of the appropriate installation, service charges, and System Capacity Charge as provided in the Schedule of Rates and Charges, or it may install a device to limit the use of water to the rated capacity of the meter. For services larger than 1 ½ inches, where the customer's annual average water use increases as a result from a change-in-use and/or expansion of an existing use, the District will require payment of the appropriate System Capacity Charge for the additional water demand as provided in the Schedule of Rates and Charges.



SECTION 17

CHANGE IN SIZE OF SERVICE
(continued)

AcChange in size of service which involves a change in location will only be approved by the District subject to the provisions of Section 18 and payment of the applicable relocation cost.

An installation charge, as provided in the Schedule of Rates and Charges, will be required when a customer applies for a change in type, increase in size, or change in location of an existing service connection.

Section 26

Protection of Public Water Supply

FY18



SECTION 26

PROTECTION OF PUBLIC WATER SUPPLY

In making plumbing connections, the customer is required to comply with Public Law 99-339 - The Safe Drinking Water Act Amendments of 1986, and the California Code of Regulations Title 17--Public Health. The water purveyor has the primary responsibility for protecting the public water supply from contamination by implementation of a cross-connection program.

Such regulations prohibit:

- unprotected cross-connections between a domestic water supply and any auxiliary water supply, or between a potable water supply and a nonpotable water supply;
- water service to a premises where there is a probability that a pollutant, contaminant, system or plumbing hazard may be created;
- water service where materials dangerous to health or toxic substances in toxic concentrations are handled; or
- water service where the water system is unstable and cross-connections may be installed or reinstalled.

Accordingly, the District requires the installation of backflow prevention devices under the following conditions:

- where another source of water including recycled water, whether cross-connected or not, is in use or is available for use; or
- where contaminated liquid or soluble substances of any kind are used, produced or processed.

Where a backflow device or other protective devices are used as a protection to the customer's plumbing system, a suitable pressure relief valve must be installed and maintained by the customer at his/her expense. The relief valve shall be installed between the backflow device and the water heater.

In special cases, the District may require the customer to eliminate certain plumbing or piping connections as an additional precaution to prevent backflow.



SECTION 26

PROTECTION OF PUBLIC WATER SUPPLY
(Continued)

The California Code of Regulations Title 17 requires the water purveyor to any premises on or for which backflow prevention devices or other protective devices are installed to assure that adequate maintenance and periodic testing are provided by the water user to ensure proper operation of these devices, and also requires that these devices be tested for water tightness and reliability at least once per year or more frequently if determined to be necessary by the water purveyor. Backflow prevention devices must be tested by persons who have demonstrated their competency in testing of these devices to the water purveyor or health agency. Accordingly, the District will establish a list of contractors who have demonstrated their competency in the testing of backflow prevention devices, and a list of approved devices that have passed laboratory and field evaluation tests performed by a DOHS recognized testing organization.

Double-check valve preventers and other protective devices may be inspected and tested for water tightness by the District. If the inspection cannot be made without undue difficulty because of an obstruction or other interference, the customer will be notified and required to either correct the condition or have the inspection made at his own expense and witnessed by the District.

Installation costs and the annual testing and maintenance of commercial backflow devices and residential backflow devices when a Reduced Pressure Principle Backflow Device (RP) is required shall be performed by a certified tester contracted by the consumer at his/her expense. A copy of the tester's certification shall be forwarded to the District's Backflow Unit. Service to any commercial premises may be discontinued if it is found that dangerous or unprotected cross-connections exist, or if any defect is found in the backflow or other protective devices. Service will not be restored until such defects are corrected at the customer's expense and applicable District restoration charges have been paid.

Installation, testing and maintenance of double check valve backflow devices for single-family premises where a residential well exists (conforming single-family premises) shall be performed by the District, at its expense, during normal working hours. Service for any residential premise may be discontinued if it is found that dangerous or unprotected cross-connections exist.

Section 31

Water Efficiency Requirements

FY18



SECTION 31

WATER EFFICIENCY REQUIREMENTS

These regulations identify the types of water efficiency requirements for water service and the procedure for notification to Applicants that water efficiency measures are required. The most water-efficient requirement of EBMUD, local, state or federal regulations in effect on the date the District receives payment for new or upgraded service shall apply.

A. DETERMINATION OF FEASIBILITY OF WATER EFFICIENCY MEASURES

The District will review applications for new standard services and determine the applicability of, and compliance with, water-efficiency requirements. Applicants for expanded service shall be required to meet the water-efficiency requirements for all new water service facilities and may be required to retrofit existing water service facilities or uses to comply with ~~these~~all requirements. Applicant shall maintain design documents and construction and installation records and furnish a copy of said documents and records to the District upon request. The District may inspect the installation of water efficiency measures to verify that the items are installed and performing to the required water ~~use~~efficiency levels. The Applicant or their representative may be present during any District inspection.

B. WATER EFFICIENCY REQUIREMENTS FOR NEW DEVELOPMENT OR EXPANDED SERVICE

Water service shall not be furnished to any Applicant for new or expanded service, or for any change in customer classification (such as a change from industrial to commercial, residential to commercial, or the like) that includes new or retrofitted water using equipment, unless all the applicable water-efficiency measures hereinafter described in this Section 31 and required by applicable local, state and/or federal law have been reviewed and approved by the District. All the applicable and required water-efficiency measures shall be installed at Applicant's expense.

C. INDOOR WATER USE

~~a. Residential Water Service.~~

a. Toilets shall be high-efficiency or dual flush models rated and (third party) tested at a maximum average flush volume of 1.28 gallons per flush (gpf), and be certified as passing a 350 gram or higher flush test as established by the U.S. Environmental Protection Agency WaterSense Specification or other District-accepted third party testing entity. Pressure-assisted type toilets shall be high-efficiency at a maximum 1.0 gpf. No flush or conversion devices of any other kind shall be accepted.

b. Urinals shall have a maximum rated flow of 0.125 gpf or less, or be zero water consumption urinals.

~~d.c.~~ Showerheads shall be individually plumbed and have a maximum rated flow of 2.0 gallons per minute or less and be limited to one showerhead per shower stall of 2,500



SECTION 31

WATER EFFICIENCY REQUIREMENTS
(continued)

satisfy this requirement.

- d. Residential ~~L~~avatory faucets shall have aerators or laminar flow control devices (~~i.e., orifices~~) with a maximum rated flow of 1.~~2~~5 gallons per minute or less.
- e. Public lavatory faucets shall have aerators or laminar flow control devices with a maximum rated flow of 0.5 gallons per minute or less.
- f. Kitchen faucets shall have aerators or laminar flow control devices (i.e., orifices) with a maximum rated flow of ~~2.2~~1.8 gallons per minute or less with optional temporary flow of 2.2 gpm.
- g. Clothes washing machines shall be front loading horizontal axis or top loading models with a water factor rating of 4.5 or less. A water factor rating of 4.5 means a maximum average water use of 4.5 gallons per cubic foot of laundry.
- h. Residential ~~D~~ishwashers rated as standard size (i.e. 307 kWh/year) shall use less than or equal to 5.0 gallons/cycle. Dishwashers rated as compact size (i.e., 222 kWh/year) shall use less than or equal to 3.5 gallons/cycle.

~~b. Non-Residential Water Service.~~

- ~~a. Toilets shall be high-efficiency or dual flush models rated and (third-party) tested at a maximum average flush volume of 1.28 gallons per flush (gpf), and be certified as passing a 350 gram or higher flush test as established by the U.S. Environmental Protection Agency WaterSense Specification or other District-accepted third party testing entity. Pressure-assisted type toilets shall be high-efficiency rated at a maximum 1.0 gpf. No flush or conversion devices of any other kind shall be accepted.~~
- ~~b. Urinals shall have a maximum rated flow of 0.125 gpf or less, or be zero water consumption urinals.~~
- ~~c. Showerheads shall be individually plumbed and have a maximum rated flow of 2.0 gallons per minute or less, and be limited to one showerhead per shower stall of 2,500 sq. inches in area or less. Installation of flow restrictors in existing showerheads does not satisfy this requirement.~~
- ~~d. Lavatory faucets shall have aerators or laminar flow control devices (i.e., orifices) with a maximum rated flow of 1.5 gallons per minute or less.~~
- ~~e. Kitchen faucets shall have aerators or laminar flow control devices (i.e., orifices) with a maximum rated flow of 2.2 gallons per minute or less.~~



SECTION 31

WATER EFFICIENCY REQUIREMENTS (continued)

- ~~f. Laundry washing machines shall be front loading horizontal axis or top loading models with both: (1) a maximum water factor rating of 4.5 or less. A water factor of 4.5 means a maximum average water use of 4.5 gallons per cubic foot of laundry or less.~~
- ~~g.i.~~ Cooling towers not utilizing recycled water shall be equipped with recirculating systems and operate at a minimum of five (5) cycles of concentration. Newly constructed cooling towers shall be operated with conductivity controllers, as well as make up and blowdown meters.
- ~~h.i.~~ Food steamers in all food service facilities shall be boiler less or self-contained models using ≤ 3.0 gallons per hour where applicable.
- ~~i.k.~~ Commercial ice machines shall be air-cooled or use no more than 20 gallons of water per 100 pounds of ice and shall be equipped with a recirculating cooling unit. Self-contained, under-counter ice machines shall use no more than 25 gallons of water per 100 pounds of ice.
- ~~j.l.~~ Commercial refrigeration shall be air-cooled or if water-cooled, must have a closed looped system. No once through, single pass systems are permitted.
- ~~k.m.~~ Pre-Rinse ~~D~~ishwashing ~~S~~pray ~~V~~alves shall have a maximum rated flow of 1.6 gpm or less.
- ~~l.n.~~ Commercial Dishwashers or ware washing equipment shall be currently labeled an EnergyStar rated water efficient model meeting the maximum water consumption limits as specified in the table below:

Machine Type	High Temp Requirements	Low Temp Requirements
Under Counter	≤ 0.86 GPR	≤ 1.19 GPR
Stationary Single Tank Door	≤ 0.89 GPR	≤ 1.18 GPR
Pot, Pan, and Utensil	≤ 0.58 GPSF	≤ 0.58 GPSF
Single Tank Conveyor	≤ 0.70 GRP	≤ 0.79 GPR
Multiple Tank Conveyor	≤ 0.54 GRP	≤ 0.54 GRP
Single Tank Flight Type	$\leq \text{GPH} \leq 2.975x + 55.00$	$\leq \text{GPH} \leq 2.975x + 55.00$
Multiple Tank Flight Type	$\leq \text{GPH} \leq 4.96x + 17.00$	$\leq \text{GPH} \leq 4.96x + 17.00$

*GRP (gallons per rack); GPSF (gallons per square foot); GPH (gallons per hour)

- o. Conveyor and in-bay ~~V~~ehicle wash facilities shall reuse a minimum of ~~56~~0% of water from previous vehicle rinses in subsequent washes.

- p. Self-service wash facilities shall use spray nozzles with a flow rate of 3.0 gpm or less.



SECTION 31

WATER EFFICIENCY REQUIREMENTS (continued)

~~m.g.~~ Swimming pools and spas shall be covered when not in use. Public health and safety exemptions may be granted as solely determined by the District.

D. OUTDOOR WATER USE ~~(All Applicants)~~

~~1. Landscaping.~~

- ~~a. Plans with design details including plants, irrigation, grading and hydrozones shall be submitted to the District for review and approval by District for compliance with these Regulations prior to installation of a water meter. Detailed landscaping plans are required for any new or retrofitted landscaping greater than 2,500 square feet of landscaped area. Applicants with less than 2,500 square feet of landscaped area shall be required to complete a check list provided by the District including a planting and irrigation diagram for review by the District.~~

~~Landscaping shall include water efficient technology and use best management practices to reduce the annual supplemental irrigation requirement to the lowest practical amount not to exceed 70% of reference evapotranspiration for the landscaped area.~~

- ~~b. Ornamental Turf areas shall be limited to no more than 25% of the total landscaped area. Exceptions may be granted, in the sole discretion of the District, for approved drought tolerant grasses and for approved recreational areas. Turf is not permitted in any area or portion of an area with a dimension of less than eight feet on any side and shall meet precipitation rate requirements for slopes greater than 25 percent.~~
- ~~c. Non-turf areas shall be native or climate appropriate species classified as low or very low water use in the California Department of Water Resources publication Water Use Classification of Landscape Species (WUCOLS). Up to 20% of the non-turf landscaped area may have a medium or high water requirement as long as they are appropriately grouped together and irrigated separately. High and medium water use plants shall not be irrigated on the same zone that includes any low or very low water use plant. The surface area of pools and water features shall be included in the 20% of non-turf medium or high water use landscaped area calculation.~~
- ~~d. Mulch: A minimum 3-inch layer of mulch shall be specified for non-turf planting areas unless there is a horticultural reason not to mulch.~~

~~2. Irrigation.~~

- ~~a. Irrigation Efficiency. Irrigation systems shall be designed, installed and operated to avoid overspray and runoff onto any adjacent hardscape or planting area. Irrigation systems shall be~~



SECTION 31

WATER EFFICIENCY REQUIREMENTS
(continued)

~~designed, installed and operated at the lowest practical amount of water not to exceed 70% of reference evapotranspiration for the landscaped area.~~

~~b. Automatic, self-adjusting irrigation controllers shall be required on all irrigation systems with three or more valves or landscaped areas of 1,000 sq. ft. or more and shall automatically activate and deactivate the irrigation system based on changes in the weather or soil moisture.~~

~~c. Overhead sprinklers and spray heads shall not be permitted in any landscaped area or portion of an area with a dimension of less than eight feet on any side and shall be offset a minimum of 24 inches away from impervious paving. All sprinklers and other emission devices shall have matched precipitation rates within each control valve or zone. Landscape design best practices shall include distribution uniformity, head-to-head spacing and other conditions as required by regulation and/or ordinance.~~

~~d. Valves and circuits shall be separated hydrozoned based on plant water requirement (including varying root depth), sun exposure, top and bottom of slope, and irrigation rate as applicable.~~

a. All Applicants shall comply with these regulations and those required by applicable local, state and/or federal law including the California Code of Regulations, Title 23, Division 2, Chapter 2.7 Model Water Efficient Landscape Ordinance (MWELo).

b. Applicants shall submit, at a minimum, a scaled site plan that identifies the property address, parcel boundaries, building footprints, hardscape, softscape, meter location, and location of each hosebib. Projects subject to MWELo shall also provide a compliant landscape documentation package as required by the ordinance.

c. For all projects subject to MWELo where landscaping is intended to be installed by a subsequent buyer or tenant and a landscape documentation package for each individual parcel is not prepared, the following will apply:

~~e.~~

• The District will estimate the irrigable area to determine the potential irrigation demand (default demand) for inclusion in the total domestic water demand calculation; and

• The applicant will document and install the following MWELo-compliant water efficient irrigation components:

•i. All subject properties shall install a modular weather-based smart controller with rain sensor, an irrigation connection with an appropriate backflow prevention device and manual shutoff valve, and sleeves allowing irrigation to extend to all landscape areas; and



SECTION 31

WATER EFFICIENCY REQUIREMENTS
(continued)

ii. Non-residential properties with more than 1,000 square feet of irrigable area and residential properties with more than 5,000 square feet of irrigable shall also install a pressure regulator and a flow sensor with master valve.

d. Dedicated Irrigation Meter shall be required for:

- Residential projects irrigated with an irrigable landscaped area of 5,000 square feet or more.

f. Non-residential projects with an irrigable landscape of 1,000 square feet or more.

~~g.~~ e. Certificate of Completion.

- Applicant shall submit a landscape audit report verifying installation and irrigation efficiency per approved design on a form provided by the District. The audit shall be prepared by an accredited and certified third party landscape irrigation auditor.

~~3. Swimming pools and spas.~~

~~a. Covers are required for all pools and spas. Public health and safety exemptions may be granted as solely determined by District.~~

E. PENALTIES/CONSEQUENCES

Failure of Applicant to conform to this Regulation and these water-efficiency requirements stated herein may result in: a requirement to resubmit water service application and water-efficiency plan(s) at Applicant's expense, and District's withholding of water meter(s) and account activation until District approves application for compliance with these requirements.

~~1. A requirement to resubmit water service application and water-efficiency plan at Applicant's expense until District approves water service.~~

~~2.1. District's inability to release water meter(s) for installation and inability to activate account until water-efficiency plan is approved by District.~~

Real Property Use Application Fees

FY18



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

PAGE NUMBER

1

EFFECTIVE ~~-07/01/16~~
07/12/17

REAL PROPERTY USE APPLICATION FEES

TYPE OF USE	APPLICATION FEE
Fee Title (<i>Outright purchase of District property</i>)	
Properties for Sale	\$2,000.00 <u>\$2,100.00</u>
Unsolicited	12,000.00 <u>12,300.00</u>
Easement (<i>Rights for permanent use of District property, such as access, utilities, etc.</i>)	
Utility Type	2,000.00 <u>2,100.00</u>
Other	5,600.00 <u>5,700.00</u>
Quitclaim (<i>Removal of District's right, title and interest to property</i>)	
Pipe Abandonment	1,000.00
Other	2,300.00
Revocable License (<i>Permission to use District property for periods exceeding one year, subject to revocation. For such uses as utility and road crossings of aqueduct properties</i>)	1,600.00 <u>1,700.00</u>
Lease (<i>The right to occupy and use District land for a specified time period</i>)	2,000.00 <u>2,100.00</u>
Telecommunication Lease (<i>Long-term lease for PCS, cellular and/or radio uses</i>)	3,400.00 <u>3,500.00</u>
Information-only (<i>Request for information requiring research of District records. Information-only applicants will be charged a fee only if the estimated research time exceeds one hour</i>)	130.00/ <u>hr</u>
Processing and Review of Watershed Land Use Proposals (<i>Request for District to perform a formal evaluation of watershed land use proposal</i>)	130.00/ <u>hr</u> (plus all other District costs)
Property Entry Permits, Rights of Entry Permits (<i>Permission for temporary access onto District</i>)	300.00 <u>310.00</u>
Limited Land Use Permit (<i>Allows landscaping, gardening or other minor surface use of District property, subject to annual renewal</i>)	100.00 <u>110.00</u>
Temporary Construction Easement/Encroachment Permit (<i>Permission for temporary access onto District</i>)	
Open Land, No District Facilities	600.00 <u>630.00</u>
With District Facilities	2,200.00
Survey Costs if needed (<i>Application use fees listed above do not include survey costs if needed</i>)	\$125.00/hr <u>\$140.00/hr</u>

Public Records Act Fee Schedule and District Publications Fees

FY18



PUBLIC RECORDS ACT FEE SCHEDULE

INTRODUCTION

The following Fee Schedule has been established by the District to cover the costs for duplicating District documents, drawings, maps, recordings, and other records, as required by the Public Records Act.

The District offers access to its records upon receipt of a request that reasonably describes an identifiable record. Any questions or requests concerning District documents should be addressed to the Secretary of the District, East Bay Municipal Utility District, P.O. Box 24055, Oakland, California 94623-1055, or by calling (510) 287-0404.

CHARGES

Pursuant to the Public Records Act, the District may recover the "direct cost of duplication" for disclosable public records, unless a different charge is provided by statute. The direct cost of duplication generally covers two types of expenses – materials & equipment costs and labor costs.

- Materials & Equipment costs generally include the capital cost of the equipment, the maintenance contract, paper supplies, and other necessary expenses that must be incurred in order to make the equipment operational.
- Labor costs ordinarily include the pro rata salary and benefits of the clerical or technical employee operating the equipment.

The total cost for providing copies is a combination of materials, labor for actual duplication time, equipment usage, and postage, if applicable. The direct cost of duplication may vary depending on the size and type of media requested and the kind of reproduction equipment required.

Photocopies of non-District materials housed in the District Library or in other areas are charged at the same rate as District documents.

Prices quoted in this fee schedule are subject to change. An estimate of cost will be provided upon request.

Any records sent outside for duplication will be billed the actual cost of duplication by the outside vendor.

PAYMENT

For requests estimated to cost over \$100 in duplication fees, a deposit in the amount of the estimated fee will be required before duplication.

For all requests, payment in advance is required before release of records. Acceptable methods of payment include cash or check (payable to East Bay Municipal Utility District).



PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

INSPECTION/DELIVERY/PICK UP

The requestor is entitled to inspect records and/or obtain copies of records during normal business hours (8:00 a.m. to 4:30 p.m., Monday through Friday).

If the requestor wishes records to be delivered, copies will be sent first class mail unless the requestor makes other arrangements for pick up or delivery with the Secretary's Office. Postage will be charged for copies mailed to the requestor.

Federal Express service is available if the requestor supplies a Federal Express account number.

LEGAL COMPLIANCE OBLIGATIONS

Responsibility for adherence to copyright law rests with the individual requesting copies.

CATEGORIES

This Fee Schedule covers the following categories of document types or formats:

- I. Paper Based Records
 - A. General Business Documents & Engineering Drawings
 - B. Printed Maps
 - C. Bid Documents for Publicly Bid Projects
- II. Electronically Stored or Generated Records
 - A. Records that already exist
 - B. Records that do not already exist
 - C. Audio Cassette Tapes
 - D. Compact Disks (CDs)
 - E. Digital Versatile Disks (DVDs)

Fees for document types/requests not covered herein will be provided upon request.



PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

I. PAPER BASED RECORDS

A. GENERAL BUSINESS DOCUMENTS & ENGINEERING DRAWINGS

The fees charged for reproducing general business documents and engineering drawings, and printed maps photocopied onto regular paper in the sizes indicated below are based on the actual cost of duplication by District.

**Fee = Labor Cost (~~\$0.54~~\$0.56 per minute duplicating time)
+ Materials & Equipment Cost (e.g., cost per sheet or media)
+ Postage (if applicable)**

- **Labor Costs:** Labor costs for duplication time is charged at the rate of ~~\$0.52~~\$0.56 per minute. Labor costs are based on the labor rate of a clerical employee and is charged only for the actual time spent on duplication.
- **Material & Equipment:** The duplicating cost per sheet or media type is based on the actual cost of materials and equipment needed to reproduce documents. As detailed below, fees will vary depending on the type and size of documents and the method used for duplication.

1) Regular copies

8-1/2 x 11	\$0.09/pg
11 x 17	0.17/pg

2) Color copies

Requests for color copies may be sent to an outside vendor and charged back to the requestor.

3) Facsimile copies within the continental U.S.

8-1/2 x 11	0.50/pg
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PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

4) ENGINEERING DRAWINGS

Size	Bond	Vellum
8-1/2 x 11	\$0.09	N/A
11 x 17	0.17	N/A
17 width	0.33	N/A
22 width	0.66	\$1.77
28 x 38	0.96	N/A

For sizes larger than those indicated in this chart, Engineering Records will determine the cost.

Drawings having a width greater than 36 inches cannot be reproduced on District equipment and must be sent out for commercial copying. These charges will be billed to the requestor.

B. PRINTED MAPS

The fees in this section apply to the duplication of existing hard copy B-maps. The fee listed is the cost per map for duplication by the District's print shop. All other pre-printed map sizes require special formatting and the cost for duplication by an outside vendor will be determined upon request.

- **B-maps** 250' scale (11 x 17) includes Map View prints...\$0.99/map
- **Map Book Covers.** 38.64/cover

C. BID DOCUMENTS FOR PUBLICLY BID PROJECTS

Copies of plans and specifications for publicly bid construction projects are available through the District's Specifications, Cost Estimating, and Engineering Standard Records (ESR) Section at a per set cost established as each project is issued for bid. The fee will be based on the cost for duplication at the District's print shop or an outside copy service and postage, if applicable.

Pre-paid documents will be sent first class mail unless the requestor makes other arrangements for document pickup or delivery with the Specification's Clerk. Federal Express service is available if the requestor supplies a Federal Express account number.



PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

Contract Documents are also available for viewing and downloading online at EBMUD's public website: www.ebmud.com, via the "Business Opportunities" and "Construction Bid Opportunities" Link.

Copies of CD-ROM versions of contract documents in Adobe Acrobat format are available free of charge from the Specifications Clerk at 510-287-1040.

Copies of historic contract documents can be provided in accordance with the provisions of item 1: General Business Documents.

II. ELECTRONICALLY STORED OR GENERATED DATA

The fees in this section apply to records stored electronically.

In general, there are two types of electronic records: (a) records that already exist on the system and merely require printing; and (b) records that do not currently exist and require data compilation, extraction, or programming to produce. A different fee rate applies to each of these types of records.

A. RECORDS THAT ALREADY EXIST

When a requester seeks a record that already exists on the system (i.e., a record merely needs to be retrieved and printed, and does not require data compilation, extraction, or programming to produce), the following fee applies:

**Fee = Labor Cost (~~\$0.54~~\$0.56 per minute duplicating time)
Materials & Equipment Cost
+ Postage (if applicable)**

Materials & Equipment costs vary with the types/formats of records requested, as specified below:

1) Digital copies – PDF Files of B-maps

Cost of Media:

- | | |
|-----------------------|---------|
| • CD | \$ 3.05 |
| • DVD | 6.35 |
| • Electronic transfer | N/C |



PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

2) Maps on Demand

Cost per copy:

Size	Bond	Vellum*	Bond Color
8-1/2 x 11	\$0.10	\$0.19	\$0.38
11 x 17	0.19	0.36	0.73
17 x 22	0.33	0.60	2.05
22 x 34	0.49	0.84	3.38
28 x 38	0.66	1.10	5.02

*These costs reflect color plots produced only from existing files.

3) Other Electronic Records

Description	Charge Per Unit
- 8-1/2 x 11 (PC Printer)	\$0.09/pg
- CD	3.05/ea
- DVD	6.35/ea

B. RECORDS THAT DO NOT ALREADY EXIST

When a requester seeks records that do not currently exist on the system and require data compilation, extraction, or programming to produce, the requestor shall pay the cost to construct a new record, and the cost of programming and computer services necessary to produce a copy of the record. However, the District is under no obligation to provide records that do not already exist. Accordingly, the applicable fee is:

Fee = Labor Cost (~~\$1.02~~\$1.05 per minute production time)
+ Materials & Equipment Cost (rates specified in Section II.A)
+ Postage (if applicable)

Labor cost is based on the "average technical labor" rate and is charged only for the actual time spent producing the record.



PUBLIC RECORDS ACT FEE SCHEDULE

(Continued)

This fee also applies when the request requires producing a record outside of the regularly scheduled interval.

C. AUDIO CASSETTE TAPES

Regular meetings of the Board of Directors are recorded on audiotape. Copies of tapes are available upon request.

Fee = Labor Cost (~~\$0.54~~\$0.56 per minute duplicating time)
Cost per tape (90-minute cassette tape = \$1.68/tape)
+ Postage (if applicable)

D. COMPACT DISCS (CDs)

Fee = Labor Cost (~~\$0.54~~\$0.56 per minute duplicating time)
Cost per disc (CD-R Disc, Write-Once, 700MB, 80 Minute, 52X = \$3.05/disc)
+ Postage (if applicable)

E. DIGITAL VERSATILE DISCS (DVDs)

Fee = Labor Cost (~~\$0.54~~\$0.56 per minute duplicating time)
Cost per disc (DVD+R, 16X, Single Sided, 4.7 GB/120 Minutes = \$6.35/disc)
+ Postage (if applicable)



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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~~07/01/16~~

07/12/17

DISTRICT PUBLICATIONS FEES

Fee =
+ **Cost of publication** (see below)
+ **Sales tax**
+ **Postage** (if applicable)

Municipal Utility District Act \$5.15

Rules and Regulations 8.12
(Customer Service Book)

Water Conserving Plants and Landscape for the Bay Area
(Water Conservation Section)

1 – 4 copies (EBMUD pickup) 12.00
1 – 4 copies (mailed) 15.00
5 or more copies 11.00

Its Name Was MUD 18.00

Educational Materials (Outside of District's Service Area)

Teachers Guides
1 – 50 copies \$2.00 each
51 – 1,500 copies 1.75 each

Student Workbooks
1 – 5,000 copies 0.50 each
5,001 – 50,000 copies 0.43 each

Captain Hydro Posters
1 – 1,000 copies 0.70 each
1,001 and up 0.50 each

Plants and Landscapes for Summer Dry Climates of the San Francisco Bay Region

Soft cover \$34.95 each
District customer and employee 24.95 each

Hardcover 49.95 each
District customer and employee 29.95 each

Wholesalers up to 60% discount
Vendors up to 50% discount

Recreation Use Fees
Calendar Years 2018 and 2019



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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~~01/01/17~~
01/01/18

**RECREATION USE FEES FOR 2018 and 2019
January – December 2018¹
January 2019¹**

The following fees apply to use of the District's recreation facilities at Camanche Hills Hunting Preserve, Camanche Reservoir, Lafayette Reservoir, Pardee Reservoir, San Pablo Reservoir and on the District's Watershed Trail System.

All other (not included in this schedule) charges and fees for merchandise and services provided to the public in connection with the public uses of the recreation areas and facilities thereat shall be determined by the concessionaire or the District and shall be reasonable and consistent with charges for similar merchandise and services at similar locations.

General Discount Program – Discounts from fees listed may be offered in order to attract new customers and/or improve revenues. General discounts will be applied for specified time frames and apply fairly and uniformly. General discounts must be approved by the Director of Water and Natural Resource Department in advance.

District employees, retirees and immediate family receive free vehicle entry and boat launch, and a camping discount equal the car entry fee (limit one per day).

Volunteer Discount Program – Free one-year Trail Use Permit and 50% discount on vehicle entry/parking and boat launch for those who contribute an annual minimum of 20 hours of volunteer work while participating in a District Volunteer Program.

Distinguished Veteran Discount Program – Holders of the California State Parks Distinguished Veteran Pass receive free day use and boat launch at all District recreation areas.

Fishing Access Permits are required for persons 16 years of age or older. Up to four children 15 years and under and accompanied by a person who possesses a valid CA fishing license and daily fishing access permit, may fish under that fishing access permit subject to the daily possession limit of the permit holder. Every accompanied child, over the allowed number of four⁴, must have individual fishing access permits. Each child not accompanied by a fishing access permit holding adult must obtain his/her own fishing access permit.

No Fishing Access Permit is required on the two annual California Department of Fish and Wildlife Free Fishing Days.

¹Fee years are by calendar year for all locations except the Camanche Hills Hunting Preserve where fees are implemented earlier for the hunting year October 1 - September 30.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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01/01/18

CAMANCHE HILLS HUNTING PRESERVE	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
PRESERVE LICENSE (QUANTITY PRICE BREAK)			
PRESERVE LICENSE:			
Initiation Fee (Family)	\$2,995.00	<u>\$3,195.00</u>	\$3,195.00
Initiation Fee (Corporate)	2,995.00	<u>3,195.00</u>	3,195.00
Annual Maintenance (Family)	200.00	<u>300.00</u>	300.00
Annual Maintenance (Corporate)	400.00	<u>500.00</u>	500.00
LICENSED GUIDE GOOSE HUNT (PER PERSON/HUNT)	200.00	200.00	200.00
BIRD PROCESSING: (PRICE PER EACH)			
Pheasant	4.00	4.00	4.00
Chukar	4.00	4.00	4.00
20-bird card (pheasant and chukar) for 20	70.00	70.00	70.00
Duck	4.50	4.50	4.50
Goose	10.00	10.00	10.00
Smoking (all birds)	5.00	5.00	5.00
DOG RENTAL			
Half Day	75.00	75.00	75.00
Full Day	140.00	140.00	140.00
Special Hunt	140.00	140.00	140.00
SPORTING CLAYS			
Full Round Course (100 targets)	40.00	40.00	40.00
Half Round Course (50 targets)	22.00	22.00	22.00
Additional Round	10.00	10.00	10.00
Full-Day	50.00	50.00	50.00
25 targets (5-Stand/Grouse bunker)	9.00	9.00	9.00
5 targets (Skeet/trap)	6.00	6.00	6.00
ARCHERY RANGE AND COURSE			
7 Station 3-D target Course			
Per person	10.00	10.00	10.00
Per pair	18.00	18.00	18.00
Per group (max 4)	34.00	34.00	34.00
FISHING ACCESS TO RABBIT CREEK ARM OF CAMANCHE LAKE AND FARM PONDS LOCATED ON CHHP RECREATIONAL AREA			
Public Fishing Access	10.00	10.00	10.00
CHHP Members Access	5.00	5.00	5.00
FISHING ACCESS TO RABBIT CREEK ARM OF CAMANCHE LAKE			
Public Fishing Access: Bow for Carp	10.00	10.00	10.00



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**CAMANCHE HILLS HUNTING PRESERVE
(continued)**

	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
<u>RV Parking Area</u>			
Nightly	\$6.00	\$6.00	\$6.00
Clubhouse Rental (daily)	500.00	500.00	500.00
Kitchen Rental (daily)	500.00	500.00	500.00
Grounds (daily)	500.00	500.00	500.00

**Camanche Hills Hunting Preserve
Discounts, Special Programs and Limitations**

Pricing for planted bird hunting will be reviewed and approved by the Director of Water and Natural Resources.

Free bird hunting and sporting clays shooting is offered to the communications media, based on the availability of birds and the sporting clays course.

Free use of the facilities is offered to non-profit hunting organizations for family, disabled and junior hunting functions.

A Target Shooting (sporting clay, trap, 5-stand and bunkers) discount of 15% is offered to Senior, ~~and~~ Disabled, and active or retired military visitors.

A Target Shooting discount of 50% is offered to Distinguished Veteran Pass holders.

A Driven Pheasant Shoot discount of 15% is offered to Senior, Disabled, active or retired military, and Distinguished Veteran Pass holders.

An RV Parking discount of 50% is offered to Senior, Disabled and Distinguished Veteran Pass holders.

Daily field trial events are permitted on a limited basis. Fees range from \$0 for qualified non-profit organizations to a maximum of \$200.00.

EBMUD employees and retirees, concession employees and Tri-County (Amador, Calaveras and San Joaquin) Public Safety Personnel receive a 20% discount on food purchases and a 10% discount on sporting clays.

Discounts and incentives are separate and cannot be combined for a larger discount or incentive.

~~The Daily fee is valid only on the date of purchase and provides the hunter with opportunities to hunt and harvest either 3 pheasants or 6 quail.~~



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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CAMANCHE RESERVOIR – NORTH SHORE AND SOUTH SHORE RECREATION AREAS

Current
CY17

Proposed
CY18

Proposed
CY19

VEHICLE ENTRY/PARKING

CAR/MOTORCYCLE/SMALL VAN

Daily

~~\$12.50~~\$13.00\$13.50Daily, after 3:00pm ~~on non-holiday~~

10.00

10.00

10.50~~weekends~~weekdays except Memorial Day,Independence Day, and Labor Day

Daily (Off-season)

~~8.00~~9.00

9.00

Nightly (non-camping)

~~12.00~~13.0013.50Annual (12 consecutive months)~~160.00~~170.00175.00

Combined Car/Boat Daily

17.00

17.00

17.00

Combined Car and Boat 5 Use Card (Off-season)

~~60.00~~65.00

65.00

Combined Car and Boat 5 Use Card, after 3:00pm weekdays

~~37.50~~40.00

40.00

Annual Marina Overnight/Day Use (12 consecutive months)~~210.00~~220.00225.00

VEHICLE ENTRY/PARKING

LARGE VANS AND BUSES

Large Vans – 10-20 Passengers

19.00

19.00

19.00

Buses – 21+ Passengers

36.00

36.00

36.00

DOG – Daily

5.50

5.50

5.50

Annual (12 consecutive months35.0035.0035.00concurrent with Annual Parking Pass)

BOAT LAUNCH

Daily

~~10.00~~11.0012.00

Daily (Off-season)

~~7.00~~8.009.00

Night

~~10.00~~11.0012.00Annual (12 consecutive months)~~150.00~~160.00165.00

Senior/Disabled/Former POW/Disabled

Veteran Annual (12 consecutive months)~~75.00~~80.0082.50

BOAT MOORING (Buoy)

Nightly

~~15.00~~16.00

16.00

Weekly

~~80.00~~85.0090.00

Monthly: under 30 feet

~~250.00~~265.00285.00

30 feet & larger

~~325.00~~340.00

340.00

Annual (12 consecutive months):

under 30 feet

~~1,450.00~~1,500.001,550.00

30 feet & larger

~~1,900.00~~2,000.002,050.00



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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EFFECTIVE ~~01/01/17~~
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**CAMANCHE RESERVOIR – NORTH SHORE
AND SOUTH SHORE RECREATION AREAS
(continued)**

Current Proposed Proposed
CY17 CY18 CY19

BOAT SLIP OPEN (Excluding park entry)

Daily	\$30.00	\$30.00	\$30.00
Weekly	15.00	150.00	150.00
Monthly	350.00	350.00	350.00
Annual (<u>12 consecutive months</u>)	1,650.00	1,650.00	1,650.00
8 Months	1,350.00	1,350.00	1,350.00
Key Security Deposit	10.00	10.00	10.00

**BOAT SLIP COVERED – 24' Length
Maximum**

Daily	40.00	<u>45.00</u>	45.00
Weekly	170.00	<u>180.00</u>	<u>190.00</u>
Monthly	460.00	<u>500.00</u>	<u>525.00</u>
Annual (<u>12 consecutive months</u>)	1,850.00	<u>2,000.00</u>	<u>2,100.00</u>
Key Security Deposit	50.00	50.00	50.00

**BOAT SLIP COVERED – (over 24' Length
Excluding Park Entry)**

Daily	45.00	<u>50.00</u>	50.00
Weekly	210.00	<u>225.00</u>	<u>250.00</u>
Monthly	560.00	<u>600.00</u>	<u>625.00</u>
Annual (<u>12 consecutive months</u>)	2,250.00	<u>2,500.00</u>	<u>2,600.00</u>
Key Security Deposit	50.00	50.00	50.00

**RV/TRAILER/BOAT STORAGE (Excluding
park entry)**

Weekly	50.00	<u>55.00</u>	55.00
Monthly	120.00	<u>130.00</u>	130.00
12 Months, consecutive	700.00	<u>750.00</u>	750.00
Monthly – 30' Length Maximum (Concurrent with Mooring/Slip Rental)	55.00	<u>60.00</u>	60.00
Monthly – Over 30' (Concurrent with Mooring/Slip Rental)	85.00	<u>90.00</u>	90.00
Annual – 30' Length Maximum (Concurrent with Mooring/Slip Rental) (<u>12 consecutive months</u>)	300.00	<u>320.00</u>	320.00
Annual – Over 30' (Concurrent with Mooring/Slip Rental) (<u>12 consecutive months</u>)	425.00	<u>450.00</u>	450.00
Annual – concurrent with Mobile Home Space rent (<u>12 consecutive months</u>)	425.00	425.00	425.00
Annual – concurrent with Mobile Home Space Rent (<28', 1 boat only, dry # 3) (<u>12 consecutive months</u>)	175.00	175.00	175.00



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**CAMANCHE RESERVOIR – NORTH SHORE
AND SOUTH SHORE RECREATION AREAS
(continued)**

Current Proposed Proposed
CY17 CY18 CY19

FISHING ACCESS PERMIT

Daily	\$6.00	<u>\$6.25</u>	<u>\$6.50</u>
Annual	130.00	<u>135.00</u>	<u>140.00</u>

CAMPSITE (w/vehicle parking)

Nightly	28.00	<u>30.00</u>	<u>32.00</u>
Nightly (Off-season – Friday thru Sunday nights)	16.00	<u>17.00</u>	17.00
Midweek (Monday thru Thursday night)	8.00	<u>8.50</u>	8.50
Second Car Parking	12.00	<u>15.00</u>	15.00
Weekly	150.00	<u>160.00</u>	<u>165.00</u>
Second Car Weekly	70.00	<u>75.00</u>	75.00
14 nights	275.00	<u>295.00</u>	<u>300.00</u>
5 Use Card (Off-season)	75.00	<u>80.00</u>	<u>85.00</u>
Camping Reservation Fee	10.50	<u>11.00</u>	11.00

LAKESIDE PREMIUM CAMPSITES

Nightly	35.00	<u>38.00</u>	<u>40.00</u>
Nightly (Off Season Friday thru Sunday nights)	16.50	<u>17.00</u>	<u>18.00</u>
Midweek (Monday thru Thursday night)	8.25	<u>8.50</u>	<u>9.00</u>
Second Car Parking	12.00	<u>15.00</u>	15.00
Weekly	180.00	<u>190.00</u>	<u>195.00</u>
Second Car Weekly	75.00	<u>80.00</u>	80.00
14 Nights	330.00	<u>350.00</u>	<u>360.00</u>
5 Use Card (Off Season)	75.00	<u>80.00</u>	<u>85.00</u>

CAMPSITES WITH YURT STRUCTURES

8 person nightly	75.00	<u>80.00</u>	<u>85.00</u>
16 person nightly	125.00	<u>135.00</u>	<u>150.00</u>
8 person weekly	395.00	395.00	<u>425.00</u>
16 person weekly	645.00	645.00	<u>655.00</u>

**CAMPSITE (WALK-IN/BICYCLE PARKING –
8 PERSON/BIKE MAX)**

Nightly	25.00	25.00	25.00
Weekly	135.00	135.00	135.00
14 nights	255.00	255.00	255.00



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**CAMANCHE RESERVOIR – NORTH SHORE
AND SOUTH SHORE RECREATION AREAS
(continued)**

Current Proposed Proposed
CY17 CY18 CY19

GROUP CAMP (Nightly)

12-Person Limit	\$95.00	<u>\$105.00</u>	<u>\$110.00</u>
16-Person Limit	115.00	<u>125.00</u>	<u>135.00</u>
24-Person Limit	135.00	<u>150.00</u>	<u>160.00</u>
32-Person Limit	175.00	<u>200.00</u>	<u>210.00</u>
64-Person Limit	305.00	<u>350.00</u>	<u>375.00</u>
72-Person Limit	360.00	<u>400.00</u>	<u>425.00</u>

GROUP CAMP (Nightly, off season)

12-Person Limit	55.00	55.00	55.00
16-Person Limit	60.00	60.00	60.00
24-Person Limit	65.00	65.00	65.00
32-Person Limit	70.00	70.00	70.00
64-Person Limit	145.00	145.00	145.00
72-Person Limit	170.00	170.00	170.00

**EQUESTRIAN – TURKEY HILL – 2 HORSES
PER SINGLE SITE – “NO OFFSEASON
DISCOUNTS”**

General Assembly Area	80.00	<u>85.00</u>	<u>90.00</u>
Turkey Hill Single	50.00	<u>53.00</u>	<u>57.00</u>
Turkey Hill Double	105.00	<u>110.00</u>	<u>115.00</u>
Turkey Hill Triple	125.00	<u>130.00</u>	<u>135.00</u>
Turkey Hill Quad	165.00	<u>175.00</u>	<u>185.00</u>
Entire Turkey Hill (includes assembly area)	590.00	<u>625.00</u>	<u>650.00</u>

RV SITE

Nightly	48.00	<u>50.00</u>	<u>52.00</u>
Weekly	270.00	<u>300.00</u>	<u>305.00</u>
Monthly	500.00	<u>550.00</u>	<u>575.00</u>
Season (6-Month Max)	1,850.00	1,850.00	1,850.00
6 night off-season use card (Off Season)	180.00	<u>185.00</u>	<u>190.00</u>
Premium Sites (Peak Season)	53.00	<u>55.00</u>	<u>57.00</u>
Premium Sites Weekly (Peak Season)	325.00	<u>330.00</u>	<u>335.00</u>

TOWING

Camanche Recreation Area per hour	110.00	<u>115.00</u>	<u>120.00</u>
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MISCELLANEOUS

Camanche Recreation Area Lake Tours	14.00	14.00	14.00
Holding Tank Pumping	100.00	100.00	100.00



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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CAMANCHE RESERVOIR – NORTH SHORE AND SOUTH SHORE RECREATION AREAS (continued)

Current
CY17Proposed
CY18Proposed
CY19

COTTAGE/MOTEL GENERAL

Camanche Recreation Area – Security
Deposit

\$200.00

\$200.00

\$200.00

Additional Guest Charge (to maximum
occupancy)

15.00

15.00

15.00

COTTAGE (4-Person Base)

May - Sept: Night

~~170.00~~175.00180.00

Week

~~800.00~~825.00850.00Oct – ~~March~~ April: Night

115.00

115.00

115.00

Week

570.00

570.00

570.00

Month

1,500.00

1,500.00

1,500.00

COTTAGE (6-Person Base)

May - Sept: Night

~~215.00~~225.00

225.00

Week

~~935.00~~950.00

950.00

Oct - April: Night

150.00

150.00

150.00

Week

700.00

700.00

700.00

Month

1,250.00

1,250.00

1,250.00

MOTEL (TWIN)

May - Sept: Night

80.00

80.00

80.00

Week

400.00

400.00

400.00

Oct - April: Night

60.00

60.00

60.00

Week

300.00

300.00

300.00

Month

525.00

525.00

525.00

RESORT RENTAL (4 BEDROOM, 14 PERSON MAX)

May - Sept: Night

~~325.00~~350.00375.00

Week

~~1,625.00~~1,700.001,750.00Oct - ~~March~~ April: Night

155.00

155.00

155.00

Week

785.00

785.00

785.00

MOBILE HOME (MONTHLY)

~~2-bedroom~~~~CY16 Rate
+ HUD FMR
CY16 Rate
+ HUD
FMR~~~~CY1 Rate
+ HUD FMR
CY17 Rate
+ HUD
FMR¹~~~~CY1 Rate
+ HUD FMR
CY18 Rate
+ HUD FMR~~

3 bedroom



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**CAMANCHE RESERVOIR – NORTH SHORE
AND SOUTH SHORE RECREATION AREAS
(continued)**

Current
CY17

Proposed
CY18

Proposed
CY19

MOBILE HOME SPACES (MONTHLY)

North Shore 1A

~~CY16 Rate~~
~~+ HUD~~
~~FMR~~ \$474.77

CY17 Rate
+ HUD FMR

CY18 Rate
+ HUD FMR

North Shore 1B

~~CY16 Rate~~
~~+ HUD~~
~~FMR~~ \$499.71

CY17 Rate
+ HUD FMR

CY18 Rate
+ HUD FMR

North Shore 2

~~CY16 Rate~~
~~+ HUD~~
~~FMR~~ \$574.62

CY17 Rate
+ HUD FMR

CY18 Rate
+ HUD FMR

South Shore

~~CY16 Rate~~
~~+ HUD~~
~~FMR~~ \$502.71

CY17 Rate
+ HUD FMR

CY18 Rate
+ HUD FMR

**OTHER MOBILE HOME FEES (Per Space –
Monthly)**

Guest Fee

\$75.00

\$75.00

\$75.00

Late Rent/Returned Check Fee

40.00

40.00

40.00

FACILITY RENTAL

Lakeside Hall Daily (hall only)

700.00

700.00

700.00

Lakeside Hall Daily (kitchen & serviceware
included)

1,000.00

1,000.00

1,000.00

Lakeside Hall Cleaning and Equipment
Deposit

1,000.00

1,000.00

1,000.00

Camanche Clubhouse Rental Daily

150.00

150.00

150.00

Camanche Clubhouse Rental

100.00

100.00

100.00

¹HUD FMR is the Housing and Urban Development Fair Market Rents Index which is published by HUD each October. The mobile home rental space rate will be adjusted annually based on the percent change in the HUD FMR index for 2-bedroom homes averaged for Amador and Calaveras Counties.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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01/01/18

Camanche Reservoir – North and South Shore Recreation Area Discounts, Special Programs, Limitations

Concessionaire Employees ~~may~~ receive free entrance to and use of rental boats during off-hours, a 20% discount on food and merchandise, and a camping discount equal to the car entrance fee. Limited to one free vehicle entry and one free boat rental per employee per day.

Concessionaire and/or District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Current Camanche Regional Park Advisory Board members and active field public safety personnel in Amador, Calaveras and San Joaquin County receive free day use entry.

Senior/Disabled ~~–receive~~ 50% Discount on annual entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Active, reserve, retired, and veteran military personnel receive 20% discount on day use entry, boat rentals (excluding rental of the party barge), camping and short-term (14-day) RV sites and lodging. Military identification required. Discount may not be combined with other offers.

Distinguished Veteran Pass holders ~~–receive~~ ~~F~~ree day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Mobilehome Park Tenants ~~–receive~~ 50% off non-holiday weekday boat rentals and additional 25% off for qualifying Senior/Disabled/Former POW/Disabled Veteran tenants; special additional incentives for non-holiday Tuesday boat rentals; a 40% discount on off-season monthly open slip, covered slip and mooring buoy fees; and a 10% discount on regularly priced marina/store items not including fishing access permits, fishing license, prepared food/beverage, gasoline and propane.

Groups of four or less individuals meeting the criteria for disabled discounts shall be eligible to rent the 6-person ADA cottages at Camanche for the 4-person cottage rate.

Turkey Hill Equestrian Campground single site customers renting larger spaces due to single sites being occupied shall be charged the lesser prorated rate.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry and camping fees.

Short-term visitor passes may be issued for periods up to one-hour.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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Camanche Reservoir – North and South Shore Recreation Area Discounts, Special Programs, Limitations (continued)

Campsite charges include one vehicle entry, and RV site charges include a second/tow vehicle. Monthly and Seasonal RV Park fees include one vehicle entry, but do not include electricity charge. Electricity is metered and charged separately. Each of the daily charges, except the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from one hour before sunrise until one hour after sunset.

Fishing access permits are valid until midnight of said day.

Each of the weekly charges shall be valid and effective for the calendar week in which the charge is made, terminating at 1:00 p.m. on the seventh consecutive day of said period. The seasonal charges noted for each recreation area shall be valid and effective for a period not exceeding 24 consecutive hours and terminating at 1:00 p.m. during said period.

Check out time for all RV sites in 1:00 p.m.

Peak Season is May 1 – September 30. Off-season is October 1 – April 30.

Premium Campsite or Premium RV site is a site that due to enhanced amenities, waterfront access or other special features is rented at a higher rate than a standard site.

Standard campsites may have a maximum of 8 people and 2 vehicles.

Short-term visitor passes may be issued for periods of up to one-hour.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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LAFAYETTE RECREATION AREA	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
ENTRY AND PARKING – CAR/MOTORCYCLE/SMALL VAN			
Daily	\$7.00	\$7.00	\$7.00
Annual (new, includes \$25 access card)	145.00	145.00	145.00
Annual (renewal, using existing access card)	120.00	120.00	120.00
Replacement access card (gate card)	25.00	25.00	25.00
Parking Meters ½ hour (may be increased up to a maximum rate of 0.75 per ½ hour prior to CY13)	0.75	0.75	0.75
Senior/Disabled Season (new)	105.00	105.00	105.00
Senior/Disabled Season (renewal upon existing access card)	80.00	80.00	80.00
ENTRY AND PARKING – LARGE VANS AND BUSES			
Large Vans – 10-20 Passengers	18.00	18.00	18.00
Buses – 21+ Passengers	33.00	33.00	33.00
DOG (no charge)			
COMMERCIAL USES (in addition to the base fee noted below, the Director of Water and Natural Resources may set an additional fee to recover District's direct costs plus overhead)			
Commercial Use			
Small (up to 10 people)	100.00	100.00	100.00
Medium (from 11 to 50 people)	500.00	500.00	500.00
Large (from 51 to 150 people)	1,000.00	1,000.00	1,000.00
BOAT LAUNCH			
Daily	4.00	4.00	4.00
Annual	50.00	50.00	50.00
Boat Inspection Fee	6.00	6.00	6.00
FISHING ACCESS			
Daily	5.00	5.00	5.00
GROUP PICNIC			
Small Site (Weekend/Holiday)	200.00	200.00	200.00
Small Site (Weekday/Non-Holiday)	100.00	100.00	100.00
Large Site (Weekend/Holiday)	350.00	350.00	350.00
Large Site (Weekday/Non-Holiday)	175.00	175.00	175.00
Special Events Fee	500.00	500.00	500.00
+ \$1/ participant		+ \$1/ participant	+ \$1/ participant



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Lafayette Reservoir – Discounts, Special Programs, Limitations

District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Senior/Disabled ~~receive~~ 50% discount on boat launch fees and on non-holiday weekday boat rentals. Senior rates are for individuals with a drivers' license showing age 62 or older.

Distinguished Veteran Pass holders ~~receive~~ Free day use and boat launch and 50% discount on non-holiday weekday boat rentals.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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PARDEE RECREATION AREA	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
VEHICLE ENTRY AND PARKING – CAR/MOTORCYCLE/SMALL VAN			
Daily/Nightly (Non-Camping)	\$10.00	\$10.00	<u>10.50</u>
Season	112.00	<u>115.00</u>	<u>118.00</u>
Combined Car/Boat Daily	17.00	<u>15.00</u>	<u>16.00</u>
VEHICLE ENTRY AND PARKING – LARGE VANS AND BUSES			
Large Vans – 10-20 Passengers	22.00	22.00	22.00
Buses – 21+ Passengers	38.00	38.00	38.00
DOG – <u>Daily</u>	5.00	5.00	<u>5.50</u>
<u>Season (Concurrent with Season Parking Pass)</u>	<u>35.00</u>	<u>35.00</u>	<u>35.00</u>
STANDARD BOAT LAUNCH			
Daily (Weekend included)	9.00	9.00	<u>9.50</u>
Season	100.00	<u>103.00</u>	<u>106.00</u>
CARTOP BOAT LAUNCH (Float Tube, Kayak, Canoe, Scull)			
Daily	5.00	5.00	<u>5.50</u>
Season	44.00	44.00	<u>46.00</u>
BOAT MOORING			
Monthly	120.00	120.00	120.00
Season	420.00	420.00	420.00
BOAT SLIP (excluding park entry)			
Daily	9.50	9.50	<u>10.00</u>
Weekly	45.00	45.00	<u>50.00</u>
Monthly	135.00	135.00	<u>140.00</u>
Season	680.00	680.00	<u>690.00</u>
Season (concurrent with season RV)	630.00	630.00	<u>640.00</u>
FISHING ACCESS			
Daily	6.00	6.00	<u>6.50</u>
Annual	195.00	195.00	<u>200.00</u>
MISCELLANEOUS			
RV/Campsite Reservation Fee	10.00	10.00	<u>10.50</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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PARDEE RECREATION AREA (continued)	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
STANDARD CAMPSITE (w/vehicle parking)			
Nightly	\$28.00	\$28.00	<u>\$29.00</u>
Second Car Parking	10.00	10.00	10.00
Weekly	168.00	168.00	<u>174.00</u>
Second Car Parking	60.00	60.00	60.00
PREMIUM CAMPSITE (w/vehicle parking)			
Nightly	31.00	31.00	<u>32.00</u>
Weekly	186.00	186.00	<u>192.00</u>
CAMPSITE (walk-in/bicycle parking) (8 person/8 bike maximum)			
Nightly	22.00	22.00	<u>23.00</u>
Weekly	132.00	132.00	<u>138.00</u>
DOUBLE CAMPSITE (16 people/2 vehicles)			
Nightly	52.00	52.00	<u>55.00</u>
Third or Fourth Vehicle	10.00	10.00	10.00
RV SITE			
Nightly	38.00	38.00	<u>40.00</u>
Weekly	228.00	228.00	<u>240.00</u>
Monthly	500.00	500.00	<u>520.00</u>
Season	3,050.00	3,050.00	<u>3,150.00</u>
Season – Premium Site	3,150.00	3,150.00	<u>3,250.00</u>
RV/TRAILER/BOAT STORAGE (excluding park entry)			
Weekly	20.00	20.00	<u>25.00</u>
Monthly	60.00	60.00	<u>65.00</u>
Season	490.00	<u>500.00</u>	<u>510.00</u>
Season – concurrent with season RV Site	440.00	440.00	<u>445.00</u>
12 Month Consecutive	660.00	660.00	<u>670.00</u>
TOWING	80.00	80.00	80.00
RESERVABLE SITE/FACILITY (charges in addition to above fees)			
Small (25 or less persons <u>people</u>)	60.00	<u>65.00</u>	<u>70.00</u>
Medium (26-100 persons <u>people</u>)	90.00	<u>95.00</u>	<u>100.00</u>
Large (101-150 persons <u>people</u>)	120.00	<u>130.00</u>	<u>150.00</u>
Over 150 persons <u>people</u>	235.00	<u>250.00</u>	<u>265.00</u>
Café/Pool Day Use Area (refundable deposit)	50.00	<u>55.00</u>	<u>60.00</u>



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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PARDEE RESERVOIR – DISCOUNTS, SPECIAL PROGRAMS, LIMITATIONS

Concessionaire Employees ~~may~~ receive free entrance to and use of rental boats during off-season hours, a 20% discount on food and merchandise, and a camping discount equal to the car entrance fee. Limited to one free vehicle entry and one free boat rental per employee per day.

Concessionaire and/or District may provide free entry to and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Current Camanche Regional Park Advisory Board members and active field public safety personnel in Amador, Calaveras and San Joaquin County receive free day use entry.

Senior/Disabled ~~–receive~~ 50% Discount on annual entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Active, reserve, retired, and veteran military personnel receive 20% discount on day use entry, boat rentals (excluding Deluxe Pontoon), and dry camping (excluding RV hook-up sites). Military identification required. Discount may not be combined with other offers.

Distinguished Veteran Pass holders ~~–receive~~ Free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry and camping fees.

Campsite charges include one vehicle entry, and RV site charges include a second/tow vehicle.

Monthly and Seasonal RV Park fees include one vehicle entry, but do not include electricity charge. Electricity is metered and charged separately.

Each of the daily charges, except the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from one hour before sunrise until one hour after sunset. Fishing access permits are valid until midnight of said day.

Each of the weekly charges shall be valid and effective for the calendar week in which the charge is made, terminating at 1:00 p.m. on the seventh consecutive day of said period.

Each of the nightly charges shall be valid and effective for a period not exceeding 24 consecutive hours and terminating at 1:00 p.m. during said period.



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PARDEE RESERVOIR – DISCOUNTS, SPECIAL PROGRAMS, LIMITATIONS (continued)

Premium Campsite or Premium RV site is a site that, due to enhanced amenities, waterfront access or other special features, is rented at a higher rate than a standard site.

Standard campsites may have a maximum of 8 people and 2 vehicles.

Short-term visitor passes may be issued for periods of up to one hour.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SAN PABLO RECREATION AREA	<u>Current CY17</u>	<u>Proposed CY18</u>	<u>Proposed CY19</u>
ENTRY AND PARKING – CAR/MOTORCYCLE/SMALL VAN			
Daily	\$7.00	\$7.00	\$7.00
Daily (Special Events)	5.00	5.00	5.00
Season	110.00	110.00	110.00
3-Month Season	36.00	36.00	36.00
ENTRY AND PARKING – LARGE VANS AND BUSES			
Large Vans – 10-20 Passengers	22.00	22.00	22.00
Buses – 21+ Passengers	40.00	40.00	40.00
DOG	2.00	2.00	2.00
COMMERCIAL USE (in addition to the base fee noted below, the Director of Water and Natural Resources may set an additional fee to recover District's direct costs plus overhead)			
Small (up to 10 people)	120.00	120.00	120.00
Medium (11 to 50 people)	600.00	600.00	600.00
Large (51 to 150 people)	1,200.00	1,200.00	1,200.00
STANDARD BOAT LAUNCH			
Daily	8.00	8.00	8.00
Season (Entry & Boat Launch)	163.00	163.00	163.00
3-Month Season (Entry & Boat)	62.00	62.00	62.00
Boat Inspection Fee	6.00	6.00	6.00
CARTOP BOAT LAUNCH (Float Tube, Kayak, Canoe, Scull)			
Daily	4.00	4.00	4.00
Season (Entry and Cartop Launch)	124.00	124.00	124.00
3-Month Season (Entry and Cartop Launch)	41.00	41.00	41.00
FISHING ACCESS			
Daily	5.00	5.00	5.00
GROUP PICNIC			
Large Sites (Oaks) daily	260.00	260.00	260.00
Large Sites (Pines) daily	150.00	150.00	150.00
GAZEBO	60.00	60.00	60.00
TOWING	50.00	50.00	50.00



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**SAN PABLO RECREATION AREA
(continued)**

Current
CY17

Proposed
CY18

Proposed
CY19

VISITOR CENTER & DECK RENTAL

WEEKDAY EVENING VISITOR CENTER &
DECK (Minimum charge for up to 3 hours)
Extra hours

\$250.00

\$250.00

\$250.00

70.00

70.00

70.00

WEEKEND EVENING VISITOR CENTER &
DECK (Minimum charge for up to 5 hours)
Extra hours

400.00

400.00

400.00

70.00

70.00

70.00

Evening Event Cleaning and Damage Deposit
Events ending before 7:00 pm
Events ending after 7:00 pm

150.00

150.00

150.00

350.00

350.00

350.00

**WEEKDAY VISITOR CENTER & DECK
(8:00am-4:00pm)**

200.00

200.00

200.00

2 consecutive days

350.00

350.00

350.00

3 consecutive days

500.00

500.00

500.00

Daytime Event Cleaning and Damage Deposit

125.00

125.00

125.00



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SAN PABLO RESERVOIR – Discounts, Special Programs, Limitations

Concessionaire employees ~~may~~ receive free entrance to and use of rental boats during off-hours, and a 20% discount on food and merchandise. The discount is limited to one free vehicle entry and one free boat rental per employee per day. To qualify, a concession employee must work a minimum of 20 hours per week, Sunday through Saturday.

Concessionaire and/or District may provide free entry to and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Each of the daily charges, including the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from the time the park opens until it closes each day.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry fees.

Senior/Disabled ~~–receive~~ 50% Discount on seasonal and 3-month entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Distinguished Veteran Pass holders ~~–receive~~ ~~F~~free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Unless determined otherwise, the recreation season is mid-February through November (dates selected by concessionaire with District approval).



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WATERSHED TRAIL SYSTEM

Current
CY17

Proposed
CY18

Proposed
CY19

WATERSHED TRAILS

Daily Permit	\$3.00	\$3.00	\$3.00
Annual Permit	10.00	10.00	10.00
Three-Year Permit	20.00	20.00	20.00
Five-Year Permit	30.00	30.00	30.00

Wastewater Department

Schedule A

Rates for Treatment Service

FY18



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

	Current	<u>Proposed</u>
I. Unit Treatment Rates		
Flow (\$ per 100 cubic ft.)	\$1.085	<u>\$1.139</u>
CODf (\$ per pound of discharge)	0.321	<u>0.337</u>
Suspended Solids (\$ per pound)	0.469	<u>0.492</u>
Unit treatment rates for Flow, Chemical Oxygen Demand filtered (CODf), Total Suspended Solids (TSS) and a Service Charge are applied to all users unless otherwise indicated.		
II. Residential Monthly Charges (6514 Multi-Family under 5 units & 8800 Single-Family)		
A. Service Charge (per account)	\$5.55	<u>\$5.83</u>
B. Strength Charge (per dwelling unit)	7.64	<u>8.02</u>
Minimum monthly charge per household	13.19	<u>13.85</u>
C. Plus: A flow charge of \$1.09 <u>\$1.14</u> per 100 cubic ft. applied to a maximum of 9 units (per dwelling unit)		
Minimum monthly charge at 0 units	\$0.00	
Maximum monthly charge at 9 units	9.81	<u>10.26</u>
D. Total Residential Charge (A+B+C above) ¹		
Minimum monthly charge (for 8800)	\$13.19	<u>\$13.85</u>
Maximum monthly charge (for 8800)	23.00	<u>24.11</u>
Average monthly charge (for 8800)	19.73	<u>20.69</u>
¹ Does not include SF Bay Residential Pollution Prevention Fee		
III. Non-Residential Charges		
A. Monthly service charge (per account <u>meter</u>)	\$5.55	<u>\$5.83</u>
B. Treatment charge including flow processing (per 100 cubic feet of sewage discharge)		
2010 Meat Products	\$7.12	<u>\$7.48</u>
2011 Slaughterhouses	7.19	<u>7.54</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

	Current	<u>Proposed</u>
2020 Dairy Product Processing	\$5.64	<u>\$5.91</u>
2030 Fruit and Vegetable Canning	4.58	<u>4.80</u>
2040 Grain Mills	4.70	<u>4.93</u>
2050 Bakeries (including Pastries)	8.00	<u>8.40</u>
2060 Sugar Processing	4.38	<u>4.60</u>
2077 Rendering Tallow	14.34	<u>15.04</u>
2080 Beverage Manufacturing & Bottling	3.38	<u>3.56</u>
2090 Specialty Foods Manufacturing	14.50	<u>15.22</u>
2600 Pulp and Paper Products	4.04	<u>4.24</u>
2810 Inorganic Chemicals Mfr.	5.38	<u>5.65</u>
2820 Synthetic Material Manufacturing	1.24	<u>1.29</u>
2830 Drug Manufacturing	2.52	<u>2.66</u>
2840 Cleaning and Sanitation Products	5.11	<u>5.37</u>
2850 Paint Manufacturing	9.99	<u>10.48</u>
2893 Ink and Pigment Manufacturing	3.52	<u>3.70</u>
3110 Leather Tanning and Finishing	13.66	<u>14.35</u>
3200 Earthenware Manufacturing	2.93	<u>3.08</u>
3300 Primary Metals Manufacturing	2.33	<u>2.43</u>
3400 Metal Products Fabricating	1.33	<u>1.40</u>
3410 Drum and Barrel Manufacturing	13.80	<u>14.48</u>
3470 Metal Coating	1.45	<u>1.52</u>
4500 Air Transportation	1.88	<u>1.97</u>
<u>4951</u> <u>Groundwater Remediation</u>		<u>1.18</u>
5812 Food Service Establishments	4.95	<u>5.20</u>
6513 Apartment Buildings (5 or more units)	2.48	<u>2.59</u>
7000 Hotels, Motels with Food Service	3.59	<u>3.77</u>
7210 Commercial Laundries	3.13	<u>3.29</u>
7215 Coin Operated Laundromats	2.36	<u>2.48</u>
7218 Industrial Laundries	8.65	<u>9.09</u>
7300 Laboratories	1.70	<u>1.78</u>
7542 Automobile Washing and Polishing	2.26	<u>2.36</u>
8060 Hospitals	2.19	<u>2.30</u>
8200 Schools	1.60	<u>1.68</u>
All Other Business Classification Code (includes dischargers of only segregated domestic wastes from sanitary conveniences)	2.48	<u>2.59</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

Multi-Use Food Service Establishments and Domestic Waste Accounts

Accounts identified by EBMUD where there is one or more food service establishments or bakeries sharing the water meter with establishments or operations with only domestic waste discharges. These accounts are assigned an MT code based on the percentage split of the discharge from the food service establishment operations or bakeries and domestic waste. The unit treatment charge for each MT Code is calculated from the food service establishment or bakeries treatment rate and the domestic waste treatment rate.

MT Code		Current	<u>Proposed</u>
A	0-9% Food, 91-100% Domestic	\$2.48	<u>\$2.59</u>
B	10-19% Food, 81-90% Domestic	2.73	<u>2.85</u>
C	20-29% Food, 71-80% Domestic	2.97	<u>3.11</u>
D	30-39% Food, 61-70% Domestic	3.22	<u>3.37</u>
E	40-49% Food, 51-60% Domestic	3.47	<u>3.63</u>
F	50-59% Food, 41-50% Domestic	3.72	<u>3.90</u>
G	60-69% Food, 31-40% Domestic	3.96	<u>4.16</u>
H	70-79% Food, 21-30% Domestic	4.21	<u>4.42</u>
I	80-89% Food, 11-20% Domestic	4.46	<u>4.68</u>
J	90-99% Food, 1-10% Domestic	4.70	<u>4.94</u>
K	0-9% Bakery, 91-100% Domestic	2.48	<u>2.59</u>
L	10-19% Bakery, 81-90% Domestic	3.03	<u>3.17</u>
M	20-29% Bakery, 71-80% Domestic	3.58	<u>3.75</u>
N	30-39% Bakery, 61-70% Domestic	4.14	<u>4.33</u>
O	40-49% Bakery, 51-60% Domestic	4.69	<u>4.91</u>
P	50-59% Bakery, 41-50% Domestic	5.24	<u>5.50</u>
Q	60-69% Bakery, 31-40% Domestic	5.79	<u>6.08</u>
R	70-79% Bakery, 21-30% Domestic	6.34	<u>6.66</u>
S	80-89% Bakery, 11-20% Domestic	6.90	<u>7.24</u>
T	90-99% Bakery, 1-10% Domestic	7.45	<u>7.82</u>
Minimum Monthly Treatment Charge:			
6513	Apartment Buildings (5 or more units)	\$43.75	<u>\$45.93</u>
	All Others	5.55	<u>5.83</u>

Wastewater Department

Schedule B

Wet Weather Facilities Charge

FY18



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE ~~F~~B
(Formerly Schedule F)

WET WEATHER FACILITIES CHARGE

Annual Charge Collected on Property Tax Bill

TYPE	RATE
Small Lot (0-5,000 sq ft)	\$94.10 <u>\$98.80</u>
Medium Lot (5,001-10,000 sq ft)	\$147.00 <u>\$154.34</u>
Large Lot (>10,000 sq ft)	\$336.00 <u>\$352.80</u>

Wastewater Department

Schedule C

Industrial Permit Fees

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**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE C

**WASTEWATER DEPARTMENT
INDUSTRIAL PERMIT FEES**

PERMIT TYPE	FEE
Wastewater Discharge Permit	\$2,450 <u>\$2,580</u> annual*
Estimation Permits	\$920 <u>\$970</u> annual*
Limited Term Discharge Permit	\$995 <u>\$2,500</u> annual**

~~————*Annual increase for existing customer permits will be limited to 10%.~~

~~**Treatment rates for Limited Term Discharge Permit discharges will be based on
Schedule B Rates for Resource Recovery Waste Treatment.~~

Wastewater Department

Schedule D

Other Fees

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**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE D

**WASTEWATER DEPARTMENT
OTHER FEES**

TYPE	RATE
SF Bay Commercial Pollution Prevention Fee	\$5.48/Mo ¹
SF Bay Residential Pollution Prevention Fee	\$0.20/mo per dwelling unit ²
Monitoring Fees	\$1,300 <u>\$1,360</u>
Violation Follow-Up Fees	
Stage 1	\$670
Stage 2	\$1,410 + Testing Fees ³
Stage 3	\$2,950 + Testing Fees ³
Private Sewer Lateral Compliance Fees	
Compliance Certificate	\$225 <u>\$250</u>
Time Extension Certificate	\$93 <u>\$100</u>
Inspection Reschedule	\$73
Extra Lateral or Additional Verification Test	\$66 per lateral
Off-Hours Verification	\$200 for 2.5 hours
Non-Compliance – Initial Fee	\$350
Non-Compliance – Monthly Fee	\$87

¹SF Bay Commercial Pollution Prevention Fee applicable to all non-residential accounts.

²SF Bay Residential Pollution Prevention Fee applicable to all residential accounts. Fee will be charged per dwelling unit up to 5 dwelling units.

³Violation follow-up fees do not include required testing. Testing fees will be charged in accordance with Schedule E Wastewater Department Testing Fees.

Wastewater Department

Schedule F

Rates for Resource Recovery Material Treatment

FY18



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE ~~B~~^F¹
(Formerly Schedule B)

**WASTEWATER DEPARTMENT
RATES FOR RESOURCE RECOVERY MATERIAL TREATMENT**

MATERIAL TYPE	RATE²
Septage	\$0.07/gal
Fats, Oil and Grease	\$0.08/gal
Process Water	\$0.05/gal
Gray Water <u>Brine</u>	<u>Variable with Total Dissolved Solid (TDS)</u> \$0.04/gal 0-100,000 <u><50,000</u> mg/l TDS <u>\$0.05/gal 50,001 – 100,000 mg/l TDS</u> \$0.08/gal > 100,000 mg/l TDS
Sludge	<u>Variable with % Total Solids (TS)</u> \$0.05/gal up to 3% TS plus \$0.005/gal per %TS for TS between 3% to 20%
Liquid Organic Material	\$0.04/gal
Protein Material	\$0.08/gal
Solid Organic Material	\$30/ <u>ton</u> - \$ 65/ton ³
Permit Fee	\$300 (per year)

¹Payment collection for all Resource Recovery accounts shall follow the payment collection provisions contained in Section 13, Payment of Bills in the Regulations Governing Water Service to the Customers of EBMUD and Items C and K, Returned Payment Charge and Late Payment Penalty and Interest, of Schedule C of the Water System Rates and Charges.

²For special accommodations, additional charges for actual personnel costs, equipment costs, and lab costs associated with the special accommodation will apply. Special accommodations include services provided by the District above and beyond what is typical, such as evaluation and testing of a unique material stream, special equipment to receive and process material, accommodations for large volumes, special off-hour deliveries that require additional staff support, or special treatment requirements.

³Based on treatment costs (residual solids dewatering and disposal), gas production, volumes and other costs or benefits to the District.

Wastewater Department

Schedule G

Capacity Fees

FY18



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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SCHEDULE G
WASTEWATER DEPARTMENT
CAPACITY FEES

~~TABLE 1~~

Residential (\$/dwelling unit)^{1,5} ~~\$2,150²~~ \$2,510²

Non-Residential (\$/ccf/mo)^{3,4, 5}

2010	Meat Products	\$1,027	<u>\$1,233</u>
2011	Slaughterhouses	1,003	<u>1,179</u>
2020	Dairy Product Processing	810	<u>970</u>
2030	Fruit and Vegetable Canning	656	<u>782</u>
2040	Grain Mills	661	<u>778</u>
2050	Bakeries (including Pastries)	1,129	<u>1,338</u>
2060	Sugar Processing	639	<u>770</u>
2077	Rendering Tallow	1,976	<u>2,314</u>
2080	Beverage Manufacturing & Bottling	491	<u>587</u>
2090	Specialty Foods Manufacturing	2,075	<u>2,492</u>
2600	Pulp and Paper Products	569	<u>669</u>
2810	Inorganic Chemicals Manufacturing	740	<u>858</u>
2820	Synthetic Material Manufacturing	180	<u>209</u>
2830	Drug Manufacturing	368	<u>438</u>
2840	Cleaning and Sanitation Products	734	<u>876</u>
2850	Paint Manufacturing	1,412	<u>1,679</u>
2893	Ink and Pigment Manufacturing	512	<u>614</u>
3110	Leather Tanning and Finishing	1,940	<u>2,316</u>
3200	Earthenware Manufacturing	411	<u>478</u>
3300	Primary Metals Manufacturing	327	<u>381</u>
3400	Metal Products Fabricating	194	<u>227</u>
3410	Drum and Barrel Manufacturing	1,968	<u>2,358</u>
3470	Metal Coating	210	<u>245</u>
4500	Air Transportation	272	<u>319</u>
5812	Food Service Establishments	693	<u>813</u>
7000	Hotels, Motels with Food Service	503	<u>587</u>
7210	Commercial Laundries	448	<u>529</u>
7215	Coin Operated Laundromats	339	<u>400</u>
7218	Industrial Laundries	1,240	<u>1,486</u>



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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SCHEDULE G

WASTEWATER DEPARTMENT

CAPACITY FEES

(Continued)

7300	Laboratories	246	<u>289</u>
7542	Automobile Washing and Polishing	323	<u>379</u>
8060	Hospitals	342	<u>365</u>
8200	Schools	232	<u>271</u>
	All Other Business Classification Codes (includes dischargers of only segregated domestic wastes from sanitary conveniences)	324	<u>411</u>

Permit Accounts^{4, 6}

Flow (\$/ccf/mo)	159.07	<u>184.44</u>
Chemical Oxygen Demand Filtered (CODF) (\$/lb/mo)	46.88	<u>57.27</u>
Total Suspended Solids (TSS) (\$/lb/mo)	63.40	<u>72.96</u>

¹ Includes BCC 6514 and 8800.

² Residential fee is calculated as follows:

Flow:	6.7	x	\$159.07	<u>\$184.44</u>	=	\$1,066	<u>\$1,236</u>
CODF:	7.9	x	46.88	<u>57.27</u>	=	370	<u>452</u>
TSS:	11.29	x	63.40	<u>72.96</u>	=	712	<u>824</u>
						\$2,148	<u>\$2,512</u>
						Rounded to	<u>Rounded to</u>
						\$2,150	<u>\$2,510</u>

³ Capacity Fee is based on the anticipated maximum monthly flow contributions ~~multiplied by~~ and the average wastewater strength measured or assigned for each classification of customer. The District may review the actual flow and strength within 24 months, once the business is fully established to verify the estimated demand for wastewater capacity. The review may result in the assessment of additional capacity fees if the actual flow and strength exceeds the original estimate.

⁴ For non-residential customers with projected treatment revenues equal to or greater than 0.1% of the total District treatment revenue, the calculated capacity fee will be reduced by a Rate Stabilization Factor of 25%. Projected treatment revenue will be based on permit conditions at the time of application or on average wastewater strength measured for each classification of customer if a permit is not required for discharge. Total District treatment revenue will be based on the budgeted fiscal year amount at the time of application.



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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SCHEDULE G

WASTEWATER DEPARTMENT
CAPACITY FEES
(Continued)

⁵ A credit may be provided for existing services. Where a new service will replace one or more existing or prior services to a premise ~~where~~and a capacity fee was paid, a credit will be ~~given toward~~applied to the new capacity fee ~~demand and~~ based on the previous capacity unit paid or if the existing service had not paid a capacity fee ~~(for accounts in service prior to but in service since~~ July 1, 1987) then the credit is based on historic use over the preceding 10 year period~~contributions~~.

⁶ Total fee is a summation of the unit rates for flow, CODF, and TSS times permit conditions at the time of application.

RECOMMENDED SCHEDULES OF RATES, CHARGES AND FEES

FY19

Water System

Schedule A – Rate Schedule for Water Service

Wastewater System

Schedule A – Rates for Treatment Service

Schedule B – Wet Weather Facilities Charge

Schedule C – Industrial Permit Fees

Schedule D – Other Fees

Schedule F – Rates for Resource Recovery Material Treatment

Schedule A

Rate Schedule for Water Service

FY19



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

RATE SCHEDULE FOR WATER SERVICE

A. ONE MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$22.60	<u>\$24.63</u>
1 inch meter	34.13	<u>37.20</u>
1-1/2 inch meter	62.98	<u>68.65</u>
2 inch meter	97.58	<u>106.36</u>
3 inch meter	189.87	<u>206.96</u>
4 inch meter	293.70	<u>320.13</u>
6 inch meter	582.05	<u>634.43</u>
8 inch meter	928.11	<u>1,011.64</u>
10 inch meter	1,311.83	<u>1,451.69</u>
12 inch meter	1,850.94	<u>2,017.52</u>
14 inch meter	2,370.00	<u>2,583.30</u>
16 inch meter	3,004.44	<u>3,274.84</u>
18 inch meter	3,638.86	<u>3,966.36</u>

The service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

A. ONE MONTH BILLING (Continued)

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on one month meter readings for all water delivered per 100 cu. ft.:

<u>Potable Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
Single Family Residential Accounts:		
For the first 172 gpd	\$3.45	<u>\$3.76</u>
For all water used in excess of 172 gpd, up to 393 gpd	4.74	<u>5.17</u>
For all water used in excess of 393 gpd	6.27	<u>6.83</u>
Multiple Family Residential Accounts:		
For all water used	4.87	<u>5.31</u>
All Other Water Use:		
For all water used	4.85	<u>5.29</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
For all water used	\$3.78	<u>\$4.12</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

B. TWO MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$45.20	<u>\$49.26</u>
1 inch meter	68.26	<u>74.40</u>
1-1/2 inch meter	125.96	<u>137.30</u>
2 inch meter	195.16	<u>212.72</u>
3 inch meter	379.74	<u>413.92</u>
4 inch meter	587.40	<u>640.26</u>
6 inch meter	1,164.10	<u>1,268.86</u>
8 inch meter	1,856.22	<u>2,023.28</u>
10 inch meter	2,663.66	<u>2,903.38</u>
12 inch meter	3,701.88	<u>4,035.04</u>
14 inch meter	4,740.00	<u>5,166.60</u>
16 inch meter	6,008.88	<u>6,549.68</u>
18 inch meter	7,277.72	<u>7,932.72</u>

The water service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT

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SCHEDULE A

RATE SCHEDULE FOR WATER SERVICE
(Continued)

B. TWO MONTH BILLING (Continued)

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two month meter readings for all water delivered per 100 cu. ft.

<u>Potable Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
Single Family Residential Accounts:		
For the first 172 gpd	\$3.45	<u>\$3.76</u>
For all water used in excess of 172 gpd, up to 393 gpd	4.74	<u>5.17</u>
For all water used in excess of 393 gpd	6.27	<u>6.83</u>
Multiple Family Residential Accounts:		
For all water used	4.87	<u>5.31</u>
All Other Water Use:		
For all water used	4.85	<u>5.29</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER 100 CU. FT.	
For all water used	\$3.78	<u>\$4.12</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

C. EXCEPTIONS TO TWO MONTH BILLING

Except as provided below, customer accounts shall be subject to bi-monthly meter reading and customer billing schedules.

- Accounts for which the average monthly bill is estimated to exceed \$1,500; such account will be billed monthly.
- Accounts for which there are reasonable and justifiable customer requests for monthly billing.
- Accounts for which the average monthly bill is estimated to be between \$100 and \$1,500, and the customer service manager recommends monthly billing based on an evaluation of credit and/or collection problems.

D. PRIVATE FIRE SERVICES

Effective July 1, 2005, the rates for Private Fire Services shall consist of:

FIRST – A MONTHLY SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch meters	\$12.03	<u>\$13.11</u>
1 inch meter	16.52	<u>18.01</u>
1-1/2 inch meter	27.71	<u>30.20</u>
2 inch meter	41.14	<u>44.84</u>
3 inch meter	76.99	<u>83.92</u>
4 inch meter	117.29	<u>127.85</u>
6 inch meter	229.28	<u>249.92</u>
8 inch meter	363.66	<u>396.39</u>
10 inch meter	520.43	<u>567.27</u>
12 inch meter	721.99	<u>786.97</u>
14 inch meter	923.57	<u>1,006.69</u>
16 inch meter	1,169.95	<u>1,275.25</u>
18 inch meter	1,416.31	<u>1,543.78</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE A

**RATE SCHEDULE FOR WATER SERVICE
(Continued)**

D. PRIVATE FIRE SERVICES (Continued)

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two-month meter readings for all water delivered per 100 cu. ft.:

There shall be no charge for water used through such services extinguishing accidental fires, but any water lost through leakage or used in violation of the District's Regulations shall be paid for at the rate for general use, and may be subject to a penalty as may be established by the District.

E. ELEVATION SURCHARGE

Elevation Designator	AMOUNT PER 100 CU. FT.	
0 and 1	\$0.00	
2 through 5	0.70	<u>0.76</u>
6 and greater	1.45	<u>1.58</u>

The Elevation surcharge is determined by the pressure zone in which the service connection is located. Pressure zones are identified by designations that include an elevation Designator.

Wastewater Department

Schedule A

Rates for Treatment Service

FY19



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

	Current	<u>Proposed</u>
I. Unit Treatment Rates		
Flow (\$ per 100 cubic ft.)	\$1.139	<u>\$1.196</u>
CODf (\$ per pound of discharge)	0.337	<u>0.354</u>
Suspended Solids (\$ per pound)	0.492	<u>0.517</u>
Unit treatment rates for Flow, Chemical Oxygen Demand filtered (CODf), Total Suspended Solids (TSS) and a Service Charge are applied to all users unless otherwise indicated.		
II. Residential Monthly Charges (6514 Multi-Family under 5 units & 8800 Single-Family)		
A. Service Charge (per account)	\$5.83	<u>\$6.12</u>
B. Strength Charge (per dwelling unit)	8.02	<u>8.43</u>
Minimum monthly charge per household	13.85	<u>14.55</u>
C. Plus: A flow charge of \$1.09 <u>\$1.20</u> per 100 cubic ft. applied to a maximum of 9 units (per dwelling unit)		
Minimum monthly charge at 0 units	\$0.00	
Maximum monthly charge at 9 units	10.26	<u>10.80</u>
D. Total Residential Charge (A+B+C above) ¹		
Minimum monthly charge (for 8800)	\$13.85	<u>\$14.55</u>
Maximum monthly charge (for 8800)	24.11	<u>25.35</u>
Average monthly charge (for 8800)	20.69	<u>21.75</u>
¹ Does not include SF Bay Residential Pollution Prevention Fee		
III. Non-Residential Charges		
A. Monthly service charge (per account)	\$5.83	<u>\$6.12</u>
B. Treatment charge including flow processing (per 100 cubic feet of sewage discharge)		
2010 Meat Products	\$7.48	<u>\$7.85</u>
2011 Slaughterhouses	7.54	<u>7.92</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

	Current	<u>Proposed</u>
2020 Dairy Product Processing	\$5.91	<u>\$6.21</u>
2030 Fruit and Vegetable Canning	4.80	<u>5.04</u>
2040 Grain Mills	4.93	<u>5.18</u>
2050 Bakeries (including Pastries)	8.40	<u>8.82</u>
2060 Sugar Processing	4.60	<u>4.83</u>
2077 Rendering Tallow	15.04	<u>15.80</u>
2080 Beverage Manufacturing & Bottling	3.56	<u>3.74</u>
2090 Specialty Foods Manufacturing	15.22	<u>15.99</u>
2600 Pulp and Paper Products	4.24	<u>4.45</u>
2810 Inorganic Chemicals Mfr.	5.65	<u>5.93</u>
2820 Synthetic Material Manufacturing	1.29	<u>1.36</u>
2830 Drug Manufacturing	2.66	<u>2.79</u>
2840 Cleaning and Sanitation Products	5.37	<u>5.64</u>
2850 Paint Manufacturing	10.48	<u>11.01</u>
2893 Ink and Pigment Manufacturing	3.70	<u>3.88</u>
3110 Leather Tanning and Finishing	14.35	<u>15.07</u>
3200 Earthenware Manufacturing	3.08	<u>3.24</u>
3300 Primary Metals Manufacturing	2.43	<u>2.56</u>
3400 Metal Products Fabricating	1.40	<u>1.47</u>
3410 Drum and Barrel Manufacturing	14.48	<u>15.21</u>
3470 Metal Coating	1.52	<u>1.60</u>
4500 Air Transportation	1.97	<u>2.07</u>
4951 Groundwater Remediation	1.18	<u>1.24</u>
5812 Food Service Establishments	5.20	<u>5.47</u>
6513 Apartment Buildings (5 or more units)	2.59	<u>2.73</u>
7000 Hotels, Motels with Food Service	3.77	<u>3.96</u>
7210 Commercial Laundries	3.29	<u>3.46</u>
7215 Coin Operated Laundromats	2.48	<u>2.60</u>
7218 Industrial Laundries	9.09	<u>9.55</u>
7300 Laboratories	1.78	<u>1.87</u>
7542 Automobile Washing and Polishing	2.36	<u>2.48</u>
8060 Hospitals	2.30	<u>2.42</u>
8200 Schools	1.68	<u>1.76</u>
All Other Business Classification Code (includes dischargers of only segregated domestic wastes from sanitary conveniences)	2.59	<u>2.73</u>



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**SCHEDULE A
WASTEWATER DEPARTMENT
RATES FOR TREATMENT SERVICE**

Multi-Use Food Service Establishments and Domestic Waste Accounts

Accounts identified by EBMUD where there is one or more food service establishments or bakeries sharing the water meter with establishments or operations with only domestic waste discharges. These accounts are assigned an MT code based on the percentage split of the discharge from the food service establishment operations or bakeries and domestic waste. The unit treatment charge for each MT Code is calculated from the food service establishment or bakeries treatment rate and the domestic waste treatment rate.

MT Code		Current	<u>Proposed</u>
A	0-9% Food, 91-100% Domestic	\$2.59	<u>\$2.73</u>
B	10-19% Food, 81-90% Domestic	2.85	<u>3.00</u>
C	20-29% Food, 71-80% Domestic	3.11	<u>3.28</u>
D	30-39% Food, 61-70% Domestic	3.37	<u>3.55</u>
E	40-49% Food, 51-60% Domestic	3.63	<u>3.83</u>
F	50-59% Food, 41-50% Domestic	3.90	<u>4.10</u>
G	60-69% Food, 31-40% Domestic	4.16	<u>4.37</u>
H	70-79% Food, 21-30% Domestic	4.42	<u>4.65</u>
I	80-89% Food, 11-20% Domestic	4.68	<u>4.92</u>
J	90-99% Food, 1-10% Domestic	4.94	<u>5.20</u>
K	0-9% Bakery, 91-100% Domestic	2.59	<u>2.73</u>
L	10-19% Bakery, 81-90% Domestic	3.17	<u>3.34</u>
M	20-29% Bakery, 71-80% Domestic	3.75	<u>3.95</u>
N	30-39% Bakery, 61-70% Domestic	4.33	<u>4.56</u>
O	40-49% Bakery, 51-60% Domestic	4.91	<u>5.17</u>
P	50-59% Bakery, 41-50% Domestic	5.50	<u>5.78</u>
Q	60-69% Bakery, 31-40% Domestic	6.08	<u>6.38</u>
R	70-79% Bakery, 21-30% Domestic	6.66	<u>6.99</u>
S	80-89% Bakery, 11-20% Domestic	7.24	<u>7.60</u>
T	90-99% Bakery, 1-10% Domestic	7.82	<u>8.21</u>
Minimum Monthly Treatment Charge:			
6513	Apartment Buildings (5 or more units)	\$45.93	<u>\$48.27</u>
	All Others	5.83	<u>6.12</u>

Wastewater Department

Schedule B

Wet Weather Facilities Charge

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**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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**SCHEDULE B
(Formerly Schedule F)**

WET WEATHER FACILITIES CHARGE

Annual Charge Collected on Property Tax Bill

TYPE	RATE
Small Lot (0-5,000 sq ft)	\$98.80 <u>\$103.74</u>
Medium Lot (5,001-10,000 sq ft)	\$154.34 <u>\$162.06</u>
Large Lot (>10,000 sq ft)	\$352.80 <u>\$370.44</u>

Wastewater Department

Schedule C

Industrial Permit Fees

FY19



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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SCHEDULE C

**WASTEWATER DEPARTMENT
INDUSTRIAL PERMIT FEES**

PERMIT TYPE	FEE
Wastewater Discharge Permit	\$2,580 <u>\$2,700</u> annual
Estimation Permit	\$970 <u>\$1,015</u> annual
Limited Term Discharge Permit	\$2,500 annual

Wastewater Department

Schedule D

Other Fees

FY19



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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EFFECTIVE

~~07/01/17~~

07/01/18

SCHEDULE D

**WASTEWATER DEPARTMENT
OTHER FEES**

TYPE	RATE
SF Bay Commercial Pollution Prevention Fee	\$5.48/Mo ¹
SF Bay Residential Pollution Prevention Fee	\$0.20/mo per dwelling unit ²
Monitoring Fees	\$1,360 <u>\$1,430</u>
Violation Follow-Up Fees	
Stage 1	\$670
Stage 2	\$1,410 + Testing Fees ³
Stage 3	\$2,950 + Testing Fees ³
Private Sewer Lateral Compliance Fees	
Compliance Certificate	\$250
Time Extension Certificate	\$100
Inspection Reschedule	\$73
Extra Lateral or Additional Verification Test	\$66 per lateral
Off-Hours Verification	\$200 for 2.5 hours
Non-Compliance – Initial Fee	\$350
Non-Compliance – Monthly Fee	\$87

¹SF Bay Commercial Pollution Prevention Fee applicable to all non-residential accounts.

²SF Bay Residential Pollution Prevention Fee applicable to all residential accounts. Fee will be charged per dwelling unit up to 5 dwelling units.

³Violation follow-up fees do not include required testing. Testing fees will be charged in accordance with Schedule E Wastewater Department Testing Fees.

Wastewater Department

Schedule F

Rates for Resource Recovery Material Treatment

FY19



**SCHEDULE OF RATES AND CHARGES TO CUSTOMERS
OF THE EAST BAY MUNICIPAL UTILITY DISTRICT**

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EFFECTIVE

~~07/01/17~~
07/01/18

SCHEDULE F¹
(Formerly Schedule B)

WASTEWATER DEPARTMENT
RATES FOR RESOURCE RECOVERY MATERIAL TREATMENT

MATERIAL TYPE	RATE²
Septage	\$0.07/gal
Fats, Oil and Grease	\$0.08/gal
Process Water	\$0.05/gal
Brine	<u>Variable with Total Dissolved Solid (TDS)</u> \$0.04/gal ≤50,000 mg/l TDS \$0.05 <u>\$0.06</u> /gal 50,001 – 100,000 mg/l TDS \$0.08 <u>\$0.09</u> /gal > 100,000 mg/l TDS
Sludge	<u>Variable with % Total Solids (TS)</u> \$0.05/gal up to 3% TS plus \$0.005/gal per %TS for TS between 3% to 20%
Liquid Organic Material	\$0.04/gal
Protein Material	\$0.08/gal
Solid Organic Material	\$30/ton - \$65/ton ³
Permit Fee	\$300 (per year)

¹Payment collection for all Resource Recovery accounts shall follow the payment collection provisions contained in Section 13, Payment of Bills in the Regulations Governing Water Service to the Customers of EBMUD and Items C and K, Returned Payment Charge and Late Payment Penalty and Interest, of Schedule C of the Water System Rates and Charges.

²For special accommodations, additional charges for actual personnel costs, equipment costs, and lab costs associated with the special accommodation will apply. Special accommodations include services provided by the District above and beyond what is typical, such as evaluation and testing of a unique material stream, special equipment to receive and process material, accommodations for large volumes, special off-hour deliveries that require additional staff support, or special treatment requirements.

³Based on treatment costs (residual solids dewatering and disposal), gas production, volumes and other costs or benefits to the District.

Fiscal Year 2018 and 2019 Update to:

EAST BAY MUNICIPAL UTILITY DISTRICT
WATER AND WASTEWATER
COST OF SERVICE STUDY

Original Report/April 9, 2015

Update to Chapter 7 – Proposed FY18 and FY19
Water and Wastewater User Charges/June 2017

7.0 PROPOSED FY18 & FY19 WATER AND WASTEWATER SERVICE CHARGES

The District Fiscal Year 2018 and 2019 (FY18 and FY19) water and wastewater service charges are based on the District's FY18 and FY19 revenue requirements and a detailed cost of service analysis. More specifically, the District's budgeted operating, capital and debt expenses were used to establish the FY18 and FY19 revenue requirements. The District's cost of service (COS) study rate model, prepared by Raftelis Financial Consultants, was used to calculate water and wastewater service charges for FY18 and FY19 that meet the FY18 and FY19 revenue requirements, and are consistent with the District's cost of service calculations.

The District's proposed budgets for FY18 and FY19 do not contain detailed budgeted costs by function, so the Test Year COS results are adjusted to match the FY18 and FY19 revenue requirements based on the budgets. The District does not anticipate that the distribution of expenses by function for FY18 and FY19 will be significantly different than the Test Year expenses. A detailed explanation of the proposed FY18 and FY19 operating expenses, capital improvement program, debt service expenses, revenue projections, water sales and wastewater treatment flows are contained in the Proposed Biennial Budget Fiscal Years 2018 and 2019 that was presented to the Board at the April 11, 2017 workshop.

This section documents the process and calculations made to determine the water and wastewater service charges for FY18 and FY19.

7.1 FY18 AND FY19 WATER SERVICE CHARGES AND CUSTOMER IMPACTS

Tables 7-1 and 7-2 show the current FY17 water service charges that were developed using the FY17 revenue requirement and the water service charges calculated by the COS study.

Table 7-1
Current FY17 Cost of Service Water Charges – Monthly Service Charge (\$/Meter Size)

Meter Size	Monthly Meter Service Charge	Monthly Private Fire Service Charge
5/8 and 3/4 inch	\$20.69	\$11.01
1 inch	\$31.24	\$15.12
1 1/2 inch	\$57.65	\$25.36
2 inch	\$89.32	\$37.66
3 inch	\$173.79	\$70.47
4 inch	\$268.83	\$107.36
6 inch	\$532.77	\$209.87
8 inch	\$849.53	\$332.87
10 inch	\$1,219.07	\$476.37
12 inch	\$1,694.22	\$660.86
14 inch	\$2,169.34	\$845.37
1 inch	\$2,750.06	\$1,070.89
16 inch	\$3,330.76	\$1,296.39

Table 7-2
Current FY17 Cost of Service Water Charges – Flow Charge and Elevation Surcharge

FY17		
Flow Charges (\$/Ccf)		
SFR		
Tier 1	0-7 Ccf	\$3.16
Tier 2	8-16 Ccf	\$4.34
Tier 3	16+ Ccf	\$5.74
MFR		\$4.46
All Other Water Use		\$4.44
Nonpotable/Recycle Water		\$3.46
Elevation Surcharge (\$/Ccf)		
Band 1		\$0.00
Band 2		\$0.64
Band 3		\$1.33

Table 7-3 shows the revenue requirement for FY18 and FY19 as calculated based on the proposed FY18 and FY19 budgets for the water enterprise. Based on an updated projection of water sales for FY18 and FY19, the FY17 COS water service charges shown in Tables 7-1 and 7-2 need to be increased by 9.25 percent in FY18 and 9 percent in FY19 to meet the rate revenue requirements¹.

Table 7-3
Water Revenue Requirement for FY18 and FY19

Water	FY18			FY19		
	Operating	Capital	Total	Operating	Capital	Total
Revenue Requirements						
Operating - O&M Expenses	\$277,922,000		\$277,922,000	\$292,453,000		\$292,453,000
Capital - Existing Debt Service		\$187,874,000	\$187,874,000		\$188,498,000	\$188,498,000
Capital - Proposed Debt Service		\$11,677,000	\$11,677,000		\$21,539,000	\$21,539,000
Capital - Admin Expenses		\$40,000,000	\$40,000,000		\$40,000,000	\$40,000,000
Capital - Direct Expenses		\$227,746,000	\$227,746,000		\$229,847,000	\$229,847,000
Total Revenue Requirements	\$277,922,000	\$467,297,000	\$745,219,000	\$292,453,000	\$479,884,000	\$772,337,000
Revenue Offsets						
Taxes		\$30,000,000	\$30,000,000		\$30,712,000	\$30,712,000
Power	\$3,700,000		\$3,700,000	\$3,700,000		\$3,700,000
Interest	\$7,319,000		\$7,319,000	\$7,395,000		\$7,395,000
SCC Applied to Debt Service		\$27,000,000	\$27,000,000		\$27,945,000	\$27,945,000
Operating Reimbursement	\$11,564,000		\$11,564,000	\$11,911,000		\$11,911,000
RARE Reimbursement	\$3,000,000		\$3,000,000	\$3,090,000		\$3,090,000
All Other		\$14,877,000	\$14,877,000		\$14,966,000	\$14,966,000
Transfer (to)/from Rate Stabilization Reserve	\$26,000,000		\$26,000,000	\$2,000,000		\$2,000,000
Total Revenue Offsets	\$51,583,000	\$71,877,000	\$123,460,000	\$28,096,000	\$73,623,000	\$101,719,000
Adjustments						
Transfer of Cash for Capital from Other Funds	\$0	(\$167,043,000)	(\$167,043,000)	\$0	(\$163,146,000)	(\$163,146,000)
Total Adjustments	\$0	(\$167,043,000)	(\$167,043,000)	\$0	(\$163,146,000)	(\$163,146,000)
Cost of Service to be Recovered from Rates	\$226,339,000	\$228,377,000	\$454,716,000	\$264,357,000	\$243,115,000	\$507,472,000

¹ As determined in the District's April 6, 2017 Memo to the Board of Directors on FY18 and FY19 rates.

Tables 7-4 and 7-5 show the proposed FY18 and FY19 monthly service charges and private fire service charges, and the rates used for the flow charge and elevation surcharge.

Table 7-4
FY18 and FY19 Water Service Charges – Monthly Service Charge (\$/Meter Size)

	FY18	FY19
Monthly Water Service Charge		
Meter Size		
5/8 and 3/4 inch	\$22.60	\$24.63
1 inch	\$34.13	\$37.20
1 1/2 inch	\$62.98	\$68.65
2 inch	\$97.58	\$106.36
3 inch	\$189.87	\$206.96
4 inch	\$293.70	\$320.13
6 inch	\$582.05	\$634.43
8 inch	\$928.11	\$1,011.64
10 inch	\$1,331.83	\$1,451.69
12 inch	\$1,850.94	\$2,017.52
14 inch	\$2,370.00	\$2,583.30
1 inch	\$3,004.44	\$3,274.84
16 inch	\$3,638.86	\$3,966.36
Monthly Private Fire Service Charge		
Meter Size		
5/8 and 3/4 inch	\$12.03	\$13.11
1 inch	\$16.52	\$18.01
1 1/2 inch	\$27.71	\$30.20
2 inch	\$41.14	\$44.84
3 inch	\$76.99	\$83.92
4 inch	\$117.29	\$127.85
6 inch	\$229.28	\$249.92
8 inch	\$363.66	\$396.39
10 inch	\$520.43	\$567.27
12 inch	\$721.99	\$786.97
14 inch	\$923.57	\$1,006.69
1 inch	\$1,169.95	\$1,275.25
16 inch	\$1,416.31	\$1,543.78

Table 7-5
FY18 and FY19 Water Service Charges – Flow
Charge and Elevation Surcharge

		FY18	FY19
Flow Charges (\$/Ccf)			
SFR			
Tier 1	0-7 Ccf	\$3.45	\$3.76
Tier 2	8-16 Ccf	\$4.74	\$5.17
Tier 3	16+ Ccf	\$6.27	\$6.83
MFR		\$4.87	\$5.31
All Other Water Use		\$4.85	\$5.29
Nonpotable/Recycle Water		\$3.78	\$4.12
Elevation Surcharge (\$/Ccf)			
Band 1		\$0.00	\$0.00
Band 2		\$0.70	\$0.76
Band 3		\$1.45	\$1.58

The proposed customer water bill impacts, shown in Tables 7-6 through 7-8, reflect the increases described previously. Table 7-6 shows the SFR bill impacts at various levels of water usage for FY18. Bill impacts for FY19 are approximately 9 percent more than those shown below.

Table 7-6
SFR Water Bill Impacts for FY18

Use Level	Monthly Use (Ccf)	FY17 Current Bill	FY18 Proposed Bill	Difference (\$)	Difference (%)
Very Low	4	\$33.33	\$36.40	\$3.07	9.2%
Low	6	\$39.65	\$43.30	\$3.65	9.2%
Average	8	\$47.15	\$51.49	\$4.34	9.2%
High	10	\$55.83	\$60.97	\$5.14	9.2%
Very High	22	\$116.31	\$127.03	\$10.72	9.2%

All bill calculations assume 5/8" or 3/4" meter.

Table 7-7 shows the MFR bill impacts at various levels of water usage for FY18. Bill impacts for FY19 are approximately 9 percent more than those shown below.

Table 7-7
MFR Water Bill Impacts for FY18

Use Level	Monthly Use (Ccf)	FY17 Current Bill	FY18 Proposed Bill	Difference (\$)	Difference (%)
Very Low	15	\$98.14	\$107.18	\$9.04	9.2%
Low	20	\$120.44	\$131.53	\$11.09	9.2%
Average	42	\$218.56	\$238.67	\$20.11	9.2%
High	60	\$298.84	\$326.33	\$27.49	9.2%
Very High	100	\$477.24	\$521.13	\$43.89	9.2%

All bill calculations assume 1" meter.

Table 7-8 shows the Other (non-residential) bill impacts at various levels of water usage for FY18. Bill impacts for FY19 are approximately 9 percent more than those shown below.

Table 7-8
Other Water Bill Impacts for FY18

Use Level	Monthly Use (Ccf)	FY17 Current Bill	FY18 Proposed Bill	Difference (\$)	Difference (%)
Very Low	20	\$178.12	\$194.58	\$16.46	9.2%
Low	50	\$311.32	\$340.08	\$28.76	9.2%
Average	84	\$462.28	\$504.98	\$42.70	9.2%
High	100	\$533.32	\$582.58	\$49.26	9.2%
Very High	200	\$977.32	\$1,067.58	\$90.26	9.2%

All bill calculations assume 2" meter.

7.2 FY18 AND FY19 WASTEWATER SERVICE CHARGES AND CUSTOMER IMPACTS

Tables 7-9 and 7-10 show the current FY17 wastewater service charges for residential and non-residential customers, respectively, that were developed using the FY17 revenue requirement and wastewater service charges calculated by the COS study.

Table 7-9
Current FY17 Cost of Service Wastewater Service Charges – Residential

	FY17
Monthly Service Charge (per Account)	\$5.55
Monthly Strength Charge (per dwelling unit)	\$7.64
Minimum Monthly Charge	\$13.19
Plus: A flow charge per Ccf (maximum of 9 Ccf/mo)	\$1.09
Minimum monthly flow charge	\$0.00
Maximum monthly flow charge	\$9.81
Total Monthly Residential Charge	
Minimum monthly charge	\$13.19
Maximum monthly charge	\$23.00
Average monthly charge at 6 Ccf	\$19.73

Table 7-10
Current FY17 Cost of Service Wastewater Service Charges – Non-Residential

	FY17
Monthly Service Charge (per Account)	\$5.55
Treatment charge including flow processing (per Ccf of sewage discharge)	
Meat Products	\$7.12
Slaughterhouses	\$7.19
Dairy Product Processing	\$5.64
Fruit and Vegetable Canning	\$4.58
Grain Mills	\$4.70
Bakeries (including Pastries)	\$8.00
Sugar Processing	\$4.38
Rendering Tallow	\$14.34
Beverage Manufacturing & Bottling	\$3.38
Specialty Foods Manufacturing	\$14.50
Pulp and Paper Products	\$4.04
Inorganic Chemicals Mfgr.	\$5.38
Synthetic Material Manufacturing	\$1.24
Drug Manufacturing	\$2.52
Cleaning and Sanitation Products	\$5.11
Paint Manufacturing	\$9.99
Ink and Pigment Manufacturing	\$3.52
Leather Tanning and Finishing	\$13.66
Earthenware Manufacturing	\$2.93
Primary Metals Manufacturing	\$2.33
Metal Products Fabricating	\$1.33
Drum and Barrel Manufacturing	\$13.80
Metal Coating	\$1.45
Air Transportation	\$1.88
Food Service Establishments	\$4.95
Apartment Buildings (5 or more units)	\$2.48
Hotels, Motels with Food Service	\$3.59
Commercial Laundries	\$3.13
Coin Operated Laundromats	\$2.36
Industrial Laundries	\$8.65
Laboratories	\$1.70
Automobile Washing and Polishing	\$2.26
Hospitals	\$2.19
Schools	\$1.60
All Other BCC (includes dischargers of only segregated domestic wastes from sanitary conveniences)	\$2.48

Table 7-11 shows the current FY17 wet weather facilities charges that were developed using the FY17 revenue requirement and the wet weather facilities charges calculated by the COS study.

Table 7-11
Current FY17 Cost of Service Wet Weather Facilities Charges^[1]

Lot Size (sq ft)	FY17
0-5,000	\$94.10
5,001-10,000	\$147.00
over 10,000	\$336.00

Table 7-12 shows the revenue requirement for FY18 and FY19 based on the proposed FY18 and FY19 budgets for the wastewater enterprise. Based on an updated projection of treatment revenues for FY18 and FY19, the FY17 COS wastewater user charges, shown in Tables 7-9 through 7-11, need to be increased by 5 percent in FY18 and 5 percent in FY19 to meet the rate revenue requirements².

Table 7-12
Wastewater Revenue Requirement for FY18 and FY19

Wastewater	FY18			FY19		
	Operating	Capital	Total	Operating	Capital	Total
Revenue Requirements						
O&M Expenses	\$70,558,000		\$70,558,000	\$73,141,000		\$73,141,000
Capital - Existing Debt Service		\$33,325,000	\$33,325,000		\$29,692,000	\$29,692,000
Capital - Proposed Debt Service		\$1,334,000	\$1,334,000		\$2,245,000	\$2,245,000
Capital - Admin Expenses		\$3,000,000	\$3,000,000		\$3,000,000	\$3,000,000
Capital - Direct Expenses		\$38,394,000	\$38,394,000		\$36,525,000	\$36,525,000
Total Revenue Requirements	\$70,558,000	\$76,053,000	\$146,611,000	\$73,141,000	\$71,462,000	\$144,603,000
Revenue Offsets						
Resource Recovery	\$3,500,000	\$4,500,000	\$8,000,000	\$3,500,000	\$4,500,000	\$8,000,000
Property Taxes, less customer assistance		\$4,817,000	\$4,817,000		\$4,930,000	\$4,930,000
Ad Valorem Bond Levy		\$2,220,000	\$2,220,000		\$0	\$0
Interest	\$1,539,000		\$1,539,000	\$1,553,000		\$1,553,000
Laboratory Services	\$4,138,000		\$4,138,000	\$4,262,000		\$4,262,000
Reimbursements	\$1,400,000		\$1,400,000	\$1,442,000		\$1,442,000
Permit Fees	\$1,600,000		\$1,600,000	\$1,600,000		\$1,600,000
Capacity Charges		\$1,800,000	\$1,800,000		\$1,863,000	\$1,863,000
All Other Revenue			\$0			\$0
BABS REBATE		\$2,500,000	\$2,500,000		\$2,500,000	\$2,500,000
PSL FEES	\$1,500,000		\$1,500,000	\$1,500,000		\$1,500,000
PGS ENERGY SALES		\$1,000,000	\$1,000,000		\$1,000,000	\$1,000,000
MISC	\$700,000		\$700,000	\$700,000		\$700,000
Transfer (to)/from Rate Stabilization Reserve (RSR)	\$0		\$0	\$0		\$0
Total Revenue Offsets	\$14,377,000	\$16,837,000	\$31,214,000	\$14,557,000	\$14,793,000	\$29,350,000
Adjustments						
Transfer of Cash for Capital from Other Funds		(\$19,648,000)	(\$19,648,000)		(\$14,720,000)	(\$14,720,000)
Total Adjustments	\$0	(\$19,648,000)	(\$19,648,000)	\$0	(\$14,720,000)	(\$14,720,000)
Cost of Service to be Recovered from Rates	\$56,181,000	\$39,568,000	\$95,749,000	\$58,584,000	\$41,949,000	\$100,533,000

² As determined in the District's April 6, 2017 Memo to the Board of Directors on FY18 and FY19 rates.

Tables 7-13 and 7-14 show the proposed FY18 and FY19 wastewater service charges for residential and non-residential customers, respectively.

Table 7-13
FY18 and FY19 Wastewater Service Charges – Residential

	FY18	FY19
Monthly Service Charge (per Account)	\$5.83	\$6.12
Monthly Strength Charge (per dwelling unit)	\$8.02	\$8.43
Minimum Monthly Charge	\$13.85	\$14.55
Plus: A flow charge per Ccf (maximum of 9 Ccf/mo)	\$1.14	\$1.20
Minimum monthly flow charge	\$0.00	\$0.00
Maximum monthly flow charge	\$10.26	\$10.80
Total Monthly Residential Charge		
Minimum monthly charge	\$13.85	\$14.55
Maximum monthly charge	\$24.11	\$25.35
Average monthly charge at 6 Ccf	\$20.69	\$21.75

Table 7-14
FY18 and FY19 Wastewater Service Charges – Non-Residential

	FY18	FY19
Monthly Service Charge (per Account)	\$5.83	\$6.12
Treatment charge including flow processing (per Ccf of sewage discharge)		
Meat Products	\$7.48	\$7.85
Slaughterhouses	\$7.54	\$7.92
Dairy Product Processing	\$5.91	\$6.21
Fruit and Vegetable Canning	\$4.80	\$5.04
Grain Mills	\$4.93	\$5.18
Bakeries (including Pastries)	\$8.40	\$8.82
Sugar Processing	\$4.60	\$4.83
Rendering Tallow	\$15.04	\$15.80
Beverage Manufacturing & Bottling	\$3.56	\$3.74
Specialty Foods Manufacturing	\$15.22	\$15.99
Pulp and Paper Products	\$4.24	\$4.45
Inorganic Chemicals Mfgr.	\$5.65	\$5.93
Synthetic Material Manufacturing	\$1.29	\$1.36
Drug Manufacturing	\$2.66	\$2.79
Cleaning and Sanitation Products	\$5.37	\$5.64
Paint Manufacturing	\$10.48	\$11.01
Ink and Pigment Manufacturing	\$3.70	\$3.88
Leather Tanning and Finishing	\$14.35	\$15.07
Earthenware Manufacturing	\$3.08	\$3.24
Primary Metals Manufacturing	\$2.43	\$2.56
Metal Products Fabricating	\$1.40	\$1.47
Drum and Barrel Manufacturing	\$14.48	\$15.21
Metal Coating	\$1.52	\$1.60
Air Transportation	\$1.97	\$2.07
Groundwater Remediation	\$1.18	\$1.24
Food Service Establishments	\$5.20	\$5.47
Apartment Buildings (5 or more units)	\$2.59	\$2.73
Hotels, Motels with Food Service	\$3.77	\$3.96
Commercial Laundries	\$3.29	\$3.46
Coin Operated Laundromats	\$2.48	\$2.60
Industrial Laundries	\$9.09	\$9.55
Laboratories	\$1.78	\$1.87
Automobile Washing and Polishing	\$2.36	\$2.48
Hospitals	\$2.30	\$2.42
Schools	\$1.68	\$1.76
All Other BCC (includes dischargers of only segregated domestic wastes from sanitary conveniences)	\$2.59	\$2.73

Table 7-15 shows the wet weather facilities charges for FY18 and FY19. The increases mirror those of the wastewater increases, i.e., 5 percent per year.

Table 7-15
FY18 and FY19 Wet Weather Facilities Charges

Lot Size (sq ft)	FY18	FY19
0-5,000	\$98.88	\$103.74
5,001-10,000	\$154.34	\$162.06
over 10,000	\$352.80	\$370.44

The resulting customer bill impacts, shown in Tables 7-16 and 7-17, reflect the increases described previously. Table 7-16 shows the bill impacts for different customers with typical water usage for FY18. Bill impacts for FY19 are approximately 5 percent more than those shown below.

Table 7-16
Typical Customers Wastewater Bill Impacts for FY18

Customer Class	Monthly Use (Ccf)	FY17 Current Bill	FY18 Proposed Bill	Difference (\$)	Difference (%)
SFR	6	\$19.73	\$20.69	\$0.96	4.9%
MFR - Fourplex	25	\$63.36	\$66.41	\$3.05	4.8%
Commercial - Office	50	\$129.55	\$135.33	\$5.78	4.5%
Commercial - Restaurant	50	\$253.05	\$265.83	\$12.78	5.1%
Industrial - Food Manufacturing	500	\$7,255.55	\$7,615.83	\$360.28	5.0%

Note: Bill does not include SF Bay Pollution Prevention Charge

Table 7-17 shows the annual charges for the FY18 wet weather facilities charge collected on the property tax bill for different customers with typical lot sizes. The increase to the annual charges for the wet weather facilities charge for FY19 is approximately 5 percent more than that shown below.

Table 7-17
Wet Weather Facilities Charge Impacts for FY18

Customer Class	Median Lot Size (sq ft)	FY17 Current Bill	FY18 Proposed Bill	Difference (\$)	Difference (%)
SFR	4,800	\$94.10	\$98.80	\$4.70	5.0%
Duplex	4,500	\$94.10	\$98.80	\$4.70	5.0%
Triplex	5,130	\$147.00	\$154.34	\$7.34	5.0%
Fourplex	5,400	\$147.00	\$154.34	\$7.34	5.0%
Apartment	7,400	\$147.00	\$154.34	\$7.34	5.0%
All Other	14,300	\$336.00	\$352.80	\$16.80	5.0%

7.3 DROUGHT SURCHARGES

The 2015 COS study developed a detailed cost of service analysis to calculate drought surcharges that may be implemented during the District's drought stages. Table 7-18 shows the District's drought stages. The drought stages are part of the District's Water Shortage Contingency Plan which includes the elements contained below with respect to demand reduction and purchase of supplemental supplies of water as a water shortage becomes more severe. The 2015 COS study developed drought surcharges that would address the financial impact that customer reductions in water use would have during specified drought stages. The revenue requirement for each drought stage was developed and a drought surcharge was calculated to recover water shortage costs such as costs of acquiring and providing supplemental water, costs of water shortage-related customer service, and losses of revenue, which increases with each drought stage. The drought surcharges, expressed as percentage of the potable water flow charge, are shown in Table 7-18. In the FY 2016 and FY17 budget, the Board adopted the staged system of drought surcharges to recover water shortage-related costs.

Table 7-18
Drought Stages and Drought Surcharges

Stage	0	1	2	3	4
Demand Reduction		Voluntary 0-15%	Voluntary 0-15%	Mandatory up to 15%	Mandatory ≥15%
Supplemental Supplies			Up to 35,000 acre feet	35,000-65,000 acre feet	> 65,000 acre feet
Rates and Charges	Normal rates	Normal rates	Normal rates + Up to 8% surcharge	Normal rates + Up to 20% surcharge	Normal rates + Up to 25% surcharge

The District's COS study developed drought surcharge percentages to be added to the potable water flow charges of up to 8 percent, 20 percent and 25 percent to be levied during water shortage Stages 2, 3 and 4, respectively. Drought surcharges would be applicable to all potable water customer accounts only if the EBMUD Board of Directors declares a Stage 2, 3, or 4 drought based on factors such as system water storage and the need to purchase supplemental supplies of water to meet customer demand. The drought surcharges correspond to increasingly severe stages of water shortages, and are added to the customer's total potable water flow charge during the billing period. The drought surcharges are calculated to meet the revenue requirements of each drought stage.

The District does not anticipate a water shortage in FY18 or FY19 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the drought surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will remain in effect as a contingency plan in the unanticipated event of a water shortage. If implemented, the drought surcharges would impact the rates of the flow charge. Prior to implementing the drought surcharges, EBMUD will update drought-related costs and

develop and adopt surcharges consistent with the COS study and will not exceed the drought surcharge percentages listed above and the costs of providing service. The District's Proposition 218 notice for FY18 and FY19 includes information regarding these surcharges so that they remain available to the Board to implement the next time the District is in a water shortage that requires reductions in water use by its customers.